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available in IFICDB, IFIPAT, and IFIUDB  
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in CAPLUS, HCAPLUS, and ZCAPLUS  
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available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress  
(FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for search  
results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains  
STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28,  
2002;

saved answer sets no longer  
valid  
NEWS 14 Jul 29 Enhanced polymer searching in  
REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from  
STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) -  
new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and  
enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information  
Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB  
have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of  
TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in REGISTRY  
enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and  
enhanced

NEWS EXPRESS February 1 CURRENT WINDOWS  
VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS  
V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS  
DATED 05 FEBRUARY 2002  
NEWS HOURS STN Operating Hours Plus Help  
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(ACS)

=> s transposon tag?  
L1 920 TRANSPOSON TAG?

=> s transpos? tag?  
L2 933 TRANSPOS? TAG?

=> s transpos?(3a)tag?  
L3 1221 TRANSPOS?(3A) TAG?

=> s drosophila  
L4 136446 DROSOPHILA

=> s l3 and l4  
L5 175 L3 AND L4

=> s l5 and review  
L6 7 L5 AND REVIEW

=> dup rem l6  
PROCESSING COMPLETED FOR L6  
L7 7 DUP REM L6 (0 DUPLICATES  
REMOVED)

=> d ti so 1-7

L7 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS  
TI Functional genomics in **Drosophila**  
melanogaster  
SO Tanpakushitsu Kakusan Koso (2001), 46(16),

2436-2440

CODEN: TAKKAJ; ISSN: 0039-9450

L7 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS  
TI Functional genomics of odor-guided behavior  
in **Drosophila**  
melanogaster  
SO Chemical Senses (2001), 26(2), 215-221  
CODEN: CHSED8; ISSN: 0379-864X

L7 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS  
TI Polytene chromosomes in mutagenesis  
SO Adv. Mutagen. Res. (1993), 4, 115-49  
CODEN: AMURE3; ISSN: 0938-4065

L7 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2002 ACS  
TI Transposable elements and their biological  
consequences in  
**Drosophila** and other insects  
SO Symp. R. Entomol. Soc. London (1992),  
Volume Date 1991, 16th(Insect  
Molecular Science), 35-48, 2 plates  
CODEN: RESSBM; ISSN: 0080-4363

L7 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2002 ACS  
TI Tagging and cloning of genes with  
transposons  
SO Tanpakushitsu Kakusan Koso (1990), 35(14),  
2457-67  
CODEN: TAKKAJ; ISSN: 0039-9450

L7 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS  
TI Cloning **Drosophila** repair genes by  
**transposon**  
**tagging**  
SO Prog. Clin. Biol. Res. (1990), 340A(Mutat.  
Environ., Pt. A), 205-11  
CODEN: PCBRD2; ISSN: 0361-7742

L7 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS  
TI Controlling P element insertional  
mutagenesis  
SO Trends Genet. (1988), 4(9), 254-8  
CODEN: TRGEE2; ISSN: 0168-9525

=> d ibib ab 1

L7 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2002:22346 CAPLUS  
DOCUMENT NUMBER: 136:51281  
TITLE: Functional genomics in  
**Drosophila**  
melanogaster  
AUTHOR(S): Aigaki, Toshiro  
CORPORATE SOURCE: Grad. Sch. Sci., Tokyo  
Metrop. Univ., Japan  
SOURCE: Tanpakushitsu Kakusan  
Koso (2001), 46(16), 2436-2440  
CODEN: TAKKAJ; ISSN:  
0039-9450  
PUBLISHER: Kyoritsu Shuppan  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: Japanese  
AB A review. Topics discussed include genome  
projects of  
**Drosophila** melanogaster; gene  
identification using genome  
informatics; expression anal. using  
microarray; mutant mapping using SNP  
(single nucleotide polymorphism); gene  
silencing by RNAi method; gene  
targeting; **transposon tagging**.

=> s functional genomics and drosophila  
L8 129 FUNCTIONAL GENOMICS AND  
DROSOPHILA

=> s p element  
L9 3958 P ELEMENT

=> d his

(FILE 'HOME' ENTERED AT 11:01:04 ON 05 SEP  
2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT  
11:01:19 ON 05 SEP 2002

L1 920 S TRANSPOSON TAG?  
L2 933 S TRANSPOS? TAG?  
L3 1221 S TRANSPOS?(3A)TAG?  
L4 136446 S DROSOPHILA  
L5 175 S L3 AND L4  
L6 7 S L5 AND REVIEW  
L7 7 DUP REM L6 (0 DUPLICATES  
REMOVED)  
L8 129 S FUNCTIONAL GENOMICS AND  
DROSOPHILA  
L9 3958 S P ELEMENT

=> s l8 and review  
L10 18 L8 AND REVIEW

=> dup rem l10  
PROCESSING COMPLETED FOR L10  
L11 17 DUP REM L10 (1 DUPLICATE  
REMOVED)

=> d ti so 1-17

L11 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI Deciphering genetic regulatory codes: a  
challenge for **functional**  
**genomics**  
SO Proceedings of the National Academy of  
Sciences of the United States of  
America (2002), 99(2), 546-548  
CODEN: PNASA6; ISSN: 0027-8424

L11 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI **Functional genomics in Drosophila**: the  
Gottingen X-chromosome project  
SO BIOSpektrum (2002), 8(1), 95-98  
CODEN: BOSPFD; ISSN: 0947-0867

L11 ANSWER 3 OF 17 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.  
TI Application of physiological genomics to  
the microcirculation.  
SO Microcirculation (New York), (January,  
2002) Vol. 9, No. 1, pp. 3-12.  
print.  
ISSN: 1073-9688.

L11 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI **Functional genomics in Drosophila**  
melanogaster  
SO Tanpakushitsu Kakusan Koso (2001), 46(16),  
2436-2440  
CODEN: TAKKAJ; ISSN: 0039-9450

L11 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI Upstream - news in genomics  
SO Comparative and Functional Genomics (2001),  
2(6), 355-358  
CODEN: CFGOAT; ISSN: 1531-6912

L11 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI The neprilysin (NEP) family of zinc

metalloendopeptidases: Genomics and  
function  
SO BioEssays (2001), 23(3), 261-269  
CODEN: BIOEEJ; ISSN: 0265-9247

L11 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI **Functional genomics** of odor-guided behavior  
in  
**Drosophila melanogaster**  
SO Chemical Senses (2001), 26(2), 215-221  
CODEN: CHSED8; ISSN: 0379-864X

L11 ANSWER 8 OF 17 MEDLINE  
DUPLICATE 1  
TI Trap a gene and find out its function:  
toward **functional**  
**genomics** in **Drosophila**.  
SO JOURNAL OF NEUROGENETICS, (2001) 15 (3-4)  
147-68. Ref: 57  
Journal code: 8406473. ISSN: 0167-7063.

L11 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI **Functional genomics** of **Drosophila**  
SO Posutoshikuensu no Genomu Kagaku (2001),  
Volume 4, 30-42. Editor(s):  
Sakaki, Yoshiyuki; Kohara, Yuji. Publisher:  
Nakayama Shoten, Tokyo, Japan.  
CODEN: 69AWVM

L11 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI Zebrafish-an emerging genetic model for the  
study of cytokines and  
hematopoiesis in the era of **functional**  
**genomics**  
SO International Journal of Hematology (2001),  
73(1), 23-31  
CODEN: IJHEEY; ISSN: 0925-5710

L11 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI Cell-surface peptidases in health and  
disease: Old enzymes and new  
developments  
SO International Congress Series (2001),  
1218(Cell-Surface Aminopeptidases:  
Basic and Clinical Aspects), 17-27  
CODEN: EXMDA4; ISSN: 0531-5131

L11 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI Progress and potential of **Drosophila**  
protein interaction maps  
SO Pharmacogenomics (2000), 1(4), 417-431  
CODEN: PARMFL; ISSN: 1462-2416

L11 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI **Functional genomics** in **Drosophila**  
**melanogaster** by gene-trapping  
SO Current Genomics (2000), 1(4), 323-338  
CODEN: CGUEA8; ISSN: 1389-2029

L11 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI Genome-wide mutant collections: toolboxes  
for **functional**  
**genomics**  
SO Current Opinion in Microbiology (2000),  
3(3), 309-315  
CODEN: COMIF7; ISSN: 1369-5274

L11 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI Defining therapeutic targets in simple  
model organisms  
SO Current Genomics (2000), 1(2), 189-199  
CODEN: CGUEA8; ISSN: 1389-2029

L11 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI **Drosophila melanogaster**: a genetic tool

SO Comparative Genomics (2000), 23-41.  
Editor(s): Clark, Melody S.  
Publisher: Kluwer Academic Publishers,  
Hingham, Mass.  
CODEN: 69BHFA

L11 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2002 ACS  
TI Functional analysis of human genes  
SO Genomics: Commercial Opportunities from a  
Scientific Revolution, Papers  
presented at the Society of Chemical  
Industry (SCI) Conference on  
Genomics, Commercial Opportunities from a  
Scientific Revolution,  
Cambridge, United Kingdom, June 30-July 2,  
1997 (1998), Meeting Date 1997,  
55-68. Editor(s): Dixon, Graham K.;  
Copping, Leonard G.; Livingstone,  
David J. Publisher: Bios Scientific  
Publishers, Oxford, UK.  
CODEN: 68QQAM

=> d ibib ab 16,14,13,8

L11 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2001:349440 CAPLUS  
DOCUMENT NUMBER: 136:64711  
TITLE: **Drosophila**  
**melanogaster**: a genetic tool  
AUTHOR(S): Schafer, Ulrich;  
Jackle, Herbert  
CORPORATE SOURCE: Max Planck Institut fur  
biophysikalische Chemie,  
Abteilung Molekulare  
Entwicklungsbiologie, Gottingen,  
D-37077, Germany  
SOURCE: Comparative Genomics  
(2000), 23-41. Editor(s): Clark,  
Melody S. Kluwer  
Academic Publishers: Hingham, Mass.  
CODEN: 69BHFA  
DOCUMENT TYPE: Conference; General  
Review  
LANGUAGE: English  
AB A **review** on the **Drosophila** system as a  
model showing  
that sophisticated genetics, developed over  
a period of a century, as well  
as its advanced mol. biol. make this  
organism best suited for the study of  
**functional genomics** and for addressing  
basic questions  
in metazoan biol.  
REFERENCE COUNT: 61 THERE ARE 61  
CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL  
CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2000:450414 CAPLUS  
DOCUMENT NUMBER: 134:203094  
TITLE: Genome-wide mutant  
collections: toolboxes for  
**functional genomics**  
AUTHOR(S): Coelho, Paulo S. R.;  
Kumar, Anuj; Snyder, Michael  
CORPORATE SOURCE: Department of  
Molecular, Cellular and Developmental  
Biology, Yale  
University, New Haven, CT, 06520-8103,  
USA  
SOURCE: Current Opinion in  
Microbiology (2000), 3(3), 309-315  
CODEN: COMIF7; ISSN:

1369-5274  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English

AB A **review** with 43 refs. The sequencing of entire genomes has led to the identification of many genes. A future challenge will be to det. the function of all of the genes of an organism. One of the best ways to ascertain function is to disrupt genes and det. the phenotype of the resulting organism. Novel large-scale approaches for generating gene disruptions and analyzing the resulting phenotype are underway in the budding yeast *Saccharomyces cerevisiae* and other organisms including flies, *Mycoplasma*, worms, plants and mice. These approaches and mutant collections will be extremely valuable to the scientific community and will dramatically alter the manner in which science is performed in the future.

REFERENCE COUNT: 43 THERE ARE 43  
CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL  
CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2001:95170 CAPLUS  
DOCUMENT NUMBER: 135:176089  
TITLE: **Functional genomics in *Drosophila* melanogaster**

by gene-trapping  
AUTHOR(S): Lukacsovich, Tamas;  
Asztalos, Zoltan; Yamamoto,  
Daisuke  
CORPORATE SOURCE: School of Human  
Sciences, Waseda University, Saitama,  
359-1192, Japan  
SOURCE: Current Genomics  
(2000), 1(4), 323-338

CODEN: CGUEA8; ISSN:

1389-2029  
PUBLISHER: Bentham Science  
Publishers Ltd.  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English

AB A **review**, with 65 refs. The Genome Project proceeds towards the detn. of the nucleotide sequence of the human genome. Meanwhile the total genomic sequences of some of the less complex organisms (*E. coli*, yeast, *C. elegans* and most recently ***Drosophila* melanogaster**) have already been detd. The identification and functional anal. of the genes constituting those genomes have remained one step behind. The simultaneous detection of the expression profiles of many mRNAs present in a given cell, tissue or organ have become possible by the recently developed DNA microarray technol. This approach will eventually lead to a higher level understanding of the mol. processes underlying the maintenance, regulation and mediation of all the functions of an organism governed by gene actions. However, the automated DNA chip technol. by itself cannot replace the anal. of unique

gene functions. New variants of the classical reverse genetic approach (i.e. from gene to function) based on random mutagenesis methods must be applied in a genome-wide scale to target every gene and conclude its role from the resultant phenotype. Two opposite mutagenesis methods, which complement each other well, exist: one results in recessive loss-of function mutations by disrupting the targeted genes and the other generates dominant gain-of-function mutations by overexpressing or ectopically expressing the resp. genes. The gene-trap methodol. represents a powerful strategy by which functional genes can be easily cloned and identified. The method reliably generates the corresponding loss-of-function mutations simultaneously even if those are not manifested in any visible phenotype. These features make gene trapping particularly useful for genome anal. by allowing the correlation between the phys. and genetic maps to be established.

REFERENCE COUNT: 65 THERE ARE 65  
CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL  
CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 17 MEDLINE  
DUPLICATE 1

ACCESSION NUMBER: 2002348914 MEDLINE  
DOCUMENT NUMBER: 22087189 PubMed ID:  
12092900  
TITLE: Trap a gene and find out its  
function: toward

**functional genomics in *Drosophila***

AUTHOR: Lukacsovich T; Yamamoto D  
CORPORATE SOURCE: Advanced Institute for  
Science and Engineering and School  
of Human Sciences, Waseda  
University, Tokorozawa, Saitama,  
Japan..

Lukacs@mn.waseda.ac.jp  
SOURCE: JOURNAL OF NEUROGENETICS,  
(2001) 15 (3-4) 147-68. Ref: 57  
Journal code: 8406473. ISSN:

0167-7063.  
PUB. COUNTRY: England: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL  
ARTICLE)

General Review; (REVIEW)  
(REVIEW, ACADEMIC)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200207  
ENTRY DATE: Entered STN: 20020703  
Last Updated on STN:

20020713 Entered Medline: 20020712

AB Many declared aims of the genome projects have been achieved. The total genomic sequences of several relatively noncomplex/complex organisms (such as *E. coli*, yeast, *Caenorhabditis*, ***Drosophila***) are being determined, and the nucleotide sequencing of the entire human genome will be complete in the near future. However, this achievement is not the end

of the road but rather the first step toward the functional understanding of the genome of humans and other organisms. The determined linear nucleotide sequences remain only lists of A, C, G and T, unless they are given functional significance. The coding sequences of genes can be identified in a relatively reliable manner by computational methods, but the exact function of their protein products can rarely be determined without obtaining much additional information, e.g., by biochemical or cell biological methods. Thus, following sequencing, the next step must be to assign functions to the identified genes. The final goal of genome research today may look futuristic, but the knowledge of the function of every single gene and the interactions between them will finally allow us to understand the development and functioning of an organism as a whole. Gene-trapping methodology is a powerful strategy for cloning and identifying functional genes, as it marks a gene with a tag and simultaneously generates a corresponding genetic variation for that particular locus. Therefore, gene trapping is an extremely useful tool for **functional genomics**, establishing a correlation between the physical and genetic maps of the genome. The relative simplicity of its genome and the availability of huge bodies of genetic and molecular information make **Drosophila melanogaster** one of the most important model organisms. Its genome will serve as a "reference" for the in-depth analysis of the organization of more complex eukaryotic genomes. Multifaceted approaches to **Drosophila functional genomics** and the dual-tagging gene trap system newly developed for functional analysis of **Drosophila** genes are discussed in this **review**.

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FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 11:01:19 ON 05 SEP 2002

L1 920 S TRANSPOSON TAG?  
L2 933 S TRANSPOS? TAG?  
L3 1221 S TRANSPOS?(3A)TAG?  
L4 136446 S DROSOPHILA  
L5 175 S L3 AND L4  
L6 7 S L5 AND REVIEW  
L7 7 DUP REM L6 (0 DUPLICATES  
REMOVED)  
L8 129 S FUNCTIONAL GENOMICS AND  
DROSOPHILA  
L9 3958 S P ELEMENT  
L10 18 S L8 AND REVIEW  
L11 17 DUP REM L10 (1 DUPLICATE  
REMOVED)

=> s transpos? element?  
L12 20217 TRANSPOS? ELEMENT?

=> s genetic?/ti  
L13 293877 GENETIC?/TI

=> s l12 and l13  
L14 1520 L12 AND L13

=> s l14 and review  
L15 111 L14 AND REVIEW

=> s drosophila  
L16 136446 DROSOPHILA

=> s l15 and l16  
L17 18 L15 AND L16

=> dup rem l17  
PROCESSING COMPLETED FOR L17  
L18 15 DUP REM L17 (3 DUPLICATES  
REMOVED)

=> d ti so 1-15

L18 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2002 ACS  
TI Chromatin structure, heterochromatin, and  
transposable **genetic**  
elements: are these teammates?  
SO Molecular Biology (Moscow, Russian  
Federation, English  
Language)(Translation of Molekulyarnaya  
Biologiya) (2002), 36(2), 189-195  
CODEN: MOLBBJ; ISSN: 0026-8933

L18 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2002 ACS  
TI From sequence to phenotype: reverse  
**genetics** in  
**Drosophila melanogaster**  
SO Nature Reviews Genetics (2002), 3(3), 189-  
198  
CODEN: NRGAA; ISSN: 1471-0056

L18 ANSWER 3 OF 15 MEDLINE  
TI **Genetic** transformation systems in insects.  
SO ANNUAL REVIEW OF ENTOMOLOGY, (2001) 46 317-  
46. Ref: 99  
Journal code: 0372367. ISSN: 0066-4170.

L18 ANSWER 4 OF 15 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.  
TI **Genetic** transformation of non-drosophilid  
insects by  
**transposable elements**.  
SO Annals of the Entomological Society of  
America, (Nov., 1999) Vol. 92, No.  
6, pp. 930-936.  
ISSN: 0013-8746.

L18 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2002 ACS  
TI Eukaryotic mobile **genetic** elements: the  
past, the present, and  
the future  
SO Molecular Biology (Translation of  
Molekulyarnaya Biologiya (Moscow))  
(1999), 33(6), 846-853  
CODEN: MOLBBJ; ISSN: 0026-8933

L18 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2002 ACS  
TI Jumping genes leading to a novel technique  
of **genetic**  
modification  
SO Recherche (1996), (287), 50-55  
CODEN: RCCHBV; ISSN: 0029-5671

L18 ANSWER 7 OF 15 MEDLINE

DUPLICATE 1

TI The evolutionary **genetics** of the hobo **transposable**

**element** in the **Drosophila melanogaster** complex.

SO GENETICA, (1994) 93 (1-3) 79-90. Ref: 43  
Journal code: 0370740. ISSN: 0016-6707.

L18 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2002 ACS  
TI Mariner: its prospects as a DNA vector for the **genetic**

manipulation of medically important insects  
SO Parasitol. Today (1994), 10(2), 59-63  
CODEN: PATOE2; ISSN: 0169-4758

L18 ANSWER 9 OF 15 MEDLINE

TI [Mobile **genetic** elements and quantitative characters in

**Drosophila**: facts and hypotheses].

Mobil'nye **geneticheskie** elementy i kolichestvennye priznaki u

Drozofily: fakty i gipotezy.

SO GENETIKA, (1992 Nov) 28 (11) 15-27. Ref: 48

Journal code: 0047354. ISSN: 0016-6758.

L18 ANSWER 10 OF 15 MEDLINE

TI Retrotransposon Gypsy and **genetic** instability in

**Drosophila** (review).

SO GENETICA, (1991) 85 (1) 13-22. Ref: 37  
Journal code: 0370740. ISSN: 0016-6707.

L18 ANSWER 11 OF 15 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI INVERTONS A CLASS OF STRUCTURALLY AND FUNCTIONALLY RELATED

**GENETIC** ELEMENTS THAT INCLUDES LINEAR DNA PLASMIDS

**TRANSPOSABLE ELEMENTS** AND GENOMES OF ADENO-TYPE VIRUSES.

SO Microbiol. Rev., (1990) 54 (1), 66-74.  
CODEN: MBRED3. ISSN: 0146-0749.

L18 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI History of a **genetic** invasion

SO Recherche (1989), 20(215), 1328-38  
CODEN: RCCHBV; ISSN: 0029-5671

L18 ANSWER 13 OF 15 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE

2  
TI **TRANSPOSABLE ELEMENTS** AND **GENETIC** TRANSFORMATIONS IN **DROSOPHILA**.

SO Biol. Listy, (1986) 51 (2), 120-139.  
CODEN: BILJAC. ISSN: 0366-0486.

L18 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI Evolutional relationship between copia-like transposable **genetic**

elements in **Drosophila** and retroviruses in vertebrate

SO Tanpakushitsu Kakusan Koso (1985), 30(7), 734-43

CODEN: TAKKAJ; ISSN: 0039-9450

L18 ANSWER 15 OF 15 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI ON THE EVOLUTION AND POPULATION **GENETICS** OF HYBRID-DYSGENESIS-

CAUSING **TRANSPOSABLE ELEMENTS** IN **DROSOPHILA**.

SO Philos. Trans. R. Soc. London, B, (1985 (RECD 1986)) 312 (1154), 205-216.

CODEN: PTRBAE. ISSN: 0080-4622.

=> d ibib ab 6,4,3,2

L18 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:314825 CAPLUS

DOCUMENT NUMBER: 125:77489

TITLE: Jumping genes leading to a novel technique of

**genetic** modification  
AUTHOR(S): Biemont, Christian;

Brookfield, John F.

CORPORATE SOURCE: Univ. Lyon, Fr.

SOURCE: Recherche (1996), (287), 50-55

CODEN: RCCHBV; ISSN:

0029-5671

PUBLISHER: Societe d'Editions

Scientifiques

DOCUMENT TYPE: Journal; General Review

LANGUAGE: French

AB A **review** with 25 refs. DNA fragments can displace themselves

within the genome and can create insertion mutations at a higher rate than

spontaneous mutations. These DNA fragments have been termed jumping genes

and were first described by McClintock in

1956. Examples of such genetic

elements which also include transposons and retrotransposons have been

obsd. in organisms as varied as corn,

Caenorhabditis elegans,

retroviruses, and **Drosophila**. The no. and variety of

transposable genetic elements suggest that they play a role in mol.

evolution.

L18 ANSWER 4 OF 15 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2000:61894 BIOSIS

DOCUMENT NUMBER: PREV20000061894

TITLE: **Genetic** transformation of non-drosophilid insects

by **transposable elements**.

AUTHOR(S): Atkinson, Peter W. (1);

O'Brochta, David A.

CORPORATE SOURCE: (1) Department of Entomology, University of California, Riverside, CA USA

SOURCE: Annals of the Entomological Society of America, (Nov.,

1999) Vol. 92, No. 6, pp.

930-936. ISSN: 0013-8746.

DOCUMENT TYPE: General Review

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Four different **transposable elements** from 4 separate

families of eukaryotic **transposable elements** can now

be used to genetically transform nondrosophilid insects. In addition, over

the past few years, viral and bacterial endosymbiont gene delivery systems

for some insect species have been developed. These recent developments are

in stark contrast to the preceding decade during which, despite many

efforts, a repeatable and routine gene transfer technology applicable to

nondrosophilid insects could not be

developed. The ability to genetically transform nondrosophilid insects offers new approaches to analyzing molecular genetic systems in these species. A consequence of the increased knowledge that will arise from these studies will be new strategies for pest control that will be specific for the target insect. This short **review** briefly summarizes the 4 **transposable element**-based genetic transformation systems that have been developed for placing genes into nondrosophilid insects.

L18 ANSWER 3 OF 15 MEDLINE  
 ACCESSION NUMBER: 2001446994 MEDLINE  
 DOCUMENT NUMBER: 21062907 PubMed ID: 11112172  
 TITLE: **Genetic transformation systems in insects.**  
 AUTHOR: Atkinson P W; Pinkerton A C; O'Brochta D A  
 CORPORATE SOURCE: Department of Entomology, University of California, Riverside, California 92521, USA.. peter.atkinson@ucr.edu  
 SOURCE: ANNUAL REVIEW OF ENTOMOLOGY, (2001) 46 317-46. Ref: 99  
 Journal code: 0372367. ISSN: 0066-4170.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200108  
 ENTRY DATE: Entered STN: 20010813  
 Last Updated on STN: 20010813

Entered Medline: 20010809  
 AB The past 5 years have witnessed the emergence of techniques that permit the stable genetic transformation of a number of non-drosophilid insect species. These **transposable-element**-based strategies, together with virus-based techniques that allow the expression of genes to be quickly examined in insects, provide insect scientists with a first generation of genetic tools that can begin to be harnessed to further increase our understanding of gene function and regulation in insects. We **review** and compare the characteristics of these gene transfer systems and conclude that, although significant progress has been made, these systems still do not meet the requirements of robust genetic tools. We also **review** risk assessment issues arising from the generation and probable release of genetically engineered insects.

L18 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 2002:224713 CAPLUS  
 DOCUMENT NUMBER: 137:73914  
 TITLE: From sequence to phenotype: reverse **genetics** in **Drosophila**

melanogaster  
 AUTHOR(S): Adams, Melissa D.; Sekelsky, Jeff J.  
 CORPORATE SOURCE: Department of Biology and Program in Molecular Biology and Biotechnology, CB 3280, University of North Carolina, Chapel Hill, NC, 27599, USA  
 SOURCE: Nature Reviews Genetics (2002), 3(3), 189-198  
 CODEN: NRGAAAM; ISSN: 1471-0056  
 PUBLISHER: Nature Publishing Group  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 AB A **review**. There has been a long history of innovation and development of tools for gene discovery and genetic anal. in **Drosophila melanogaster**. This includes methods to induce mutations and to screen for those mutations that disrupt specific processes, methods to map mutations genetically and phys., and methods to clone and characterize genes at the mol. level. Modern genetics also requires techniques to do the reverse - to disrupt the functions of specific genes, the sequences of which are already known. This is the process referred to as reverse genetics. During recent years, some valuable new methods for conducting reverse genetics in **Drosophila** have been developed.  
 REFERENCE COUNT: 44 THERE ARE 44  
 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL  
 CITATIONS AVAILABLE IN THE RE FORMAT

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 L2 933 S TRANSPOS? TAG?  
 L3 1221 S TRANSPOS?(3A)TAG?  
 L4 136446 S DROSOPHILA  
 L5 175 S L3 AND L4  
 L6 7 S L5 AND REVIEW  
 L7 7 DUP REM L6 (0 DUPLICATES REMOVED)  
 L8 129 S FUNCTIONAL GENOMICS AND DROSOPHILA  
 L9 3958 S P ELEMENT  
 L10 18 S L8 AND REVIEW  
 L11 17 DUP REM L10 (1 DUPLICATE REMOVED)  
 L12 20217 S TRANSPOS? ELEMENT?  
 L13 293877 S GENETIC?/TI  
 L14 1520 S L12 AND L13  
 L15 111 S L14 AND REVIEW  
 L16 136446 S DROSOPHILA  
 L17 18 S L15 AND L16  
 L18 15 DUP REM L17 (3 DUPLICATES REMOVED)

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L13 293877 S GENETIC?/TI

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L15 111 S L14 AND REVIEW  
L16 136446 S DROSOPHILA  
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L19 26 PROMTER

=> s promoter  
L20 336314 PROMOTER

=> s inducible or regulat?  
L21 1994508 INDUCIBLE OR REGULAT?

=> s l20(a)l21  
L22 11518 L20(A) L21

=> s l12(s)l22  
L23 21 L12(S) L22

=> dup rem l23  
PROCESSING COMPLETED FOR L23  
L24 14 DUP REM L23 (7 DUPLICATES  
REMOVED)

=> d ti so 1-14

L24 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2002 ACS  
TI Transposition system with an inducible  
transposable element for controlling  
activity of a promoter and uses in plant  
gene tagging  
SO U.S., 7 pp.  
CODEN: USXXAM

L24 ANSWER 2 OF 14 MEDLINE  
DUPLICATE 1  
TI High-frequency generation of conditional  
mutations affecting Drosophila  
melanogaster development and life span.  
SO GENETICS, (2001 Jul) 158 (3) 1167-76.  
Journal code: 0374636. ISSN: 0016-6731.

L24 ANSWER 3 OF 14 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.  
TI Construction of an inducible transposon,  
INAc, to develop a gene tagging  
system in higher plants.  
SO Molecular Breeding, (August, 2000) Vol. 6,  
No. 4, pp. 353-367. print.  
ISSN: 1380-3743.

L24 ANSWER 4 OF 14 MEDLINE  
DUPLICATE 2  
TI The development of TnNuc and its use for  
the isolation of novel secretion  
signals in Lactococcus lactis.  
SO GENE, (2000 Jan 25) 242 (1-2) 347-56.  
Journal code: 7706761. ISSN: 0378-1119.

L24 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2002 ACS  
TI The scavenger receptor CD163: Regulation,  
promoter structure and genomic  
organization  
SO Pathobiology (2000), Volume Date 1999,  
67(5-6), 257-261  
CODEN: PATHEF; ISSN: 1015-2008

L24 ANSWER 6 OF 14 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.  
TI A 200-bp constructed inducible PR-1a  
promoter fusion to the Ac transposase  
gene drives higher transposition of a Ds



element than the native PR-la promoter fusion drives.  
 SO Plant Science (Shannon), (Dec. 5, 1997)  
 Vol. 130, No. 1, pp. 73-86.  
 ISSN: 0168-9452.

L24 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI Gene transfer in aspen  
 SO Transgenic Organisms and Biosafety: Horizontal Gene Transfer, Stability of DNA, and Expression of Transgenes, [Workshop on Biosafety of Transgenic Organisms], Mainz, Dec., 1994 (1996), Meeting Date 1994, 275-281.  
 Editor(s): Schmidt, Erwin R.; Hankeln, Thomas. Publisher: Springer, Berlin, Germany.  
 CODEN: 64IHAT

L24 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI Cloning and partial characterization of regulated promoters from Lactococcus lactis Tn917-lacZ integrants with the new promoter probe vector, pAK80  
 SO Applied and Environmental Microbiology (1995), 61(7), 2540-7  
 CODEN: AEMIDF; ISSN: 0099-2240

L24 ANSWER 9 OF 14 MEDLINE  
 DUPLICATE 3  
 TI Inducible transposition in Streptomyces lividans of insertion sequence IS6100 from Mycobacterium fortuitum.  
 SO MOLECULAR MICROBIOLOGY, (1995 Dec) 18 (5) 933-41.  
 Journal code: 8712028. ISSN: 0950-382X.

L24 ANSWER 10 OF 14 MEDLINE  
 DUPLICATE 4  
 TI The hobo transposable element has transposase-dependent and -independent excision activity in drosophilid species.  
 SO MOLECULAR AND GENERAL GENETICS, (1995 May 20) 247 (4) 399-408.  
 Journal code: 0125036. ISSN: 0026-8925.

L24 ANSWER 11 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 5  
 TI Fusion of the **inducible promoter** of the PR-la gene to the Activator transposase gene can transactive excision of a non-autonomous **transposable element** by external and by internal stimuli.  
 SO Plant Science (Limerick), (1995) Vol. 106, No. 2, pp. 141-155.  
 ISSN: 0168-9452.

L24 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI Engineering of alkyl- and haloaromatic-responsive gene expression with mini-transposons containing regulated promoters of biodegradative pathways of Pseudomonas  
 SO Gene (1993), 130(1), 41-6  
 CODEN: GENED6; ISSN: 0378-1119

L24 ANSWER 13 OF 14 MEDLINE  
 DUPLICATE 6  
 TI Transposable elements for efficient manipulation of a wide range of gram-negative bacteria: promoter probes and

vectors for foreign genes.  
 SO GENE, (1989 Dec 21) 85 (1) 83-9.  
 Journal code: 7706761. ISSN: 0378-1119.

L24 ANSWER 14 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI YEAST SACCHAROMYCES-CEREVISIAE **TRANSPOSABLE ELEMENT**  
 SIGMA FUNCTIONS AS A HORMONE-**INDUCIBLE PROMOTER**.  
 SO SYMPOSIUM ON TRANSCRIPTIONAL CONTROL MECHANISMS HELD AT THE 15TH ANNUAL MEETING OF THE UCLA (UNIVERSITY OF CALIFORNIA-LOS ANGELES) SYMPOSIA ON MOLECULAR AND CELLULAR BIOLOGY, APR. 6-13, 1986. J CELL BIOCHEM SUPPL. (1986) 0 (10 PART D), 162.  
 CODEN: JCBSD7.

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 L5 175 S L3 AND L4  
 L6 7 S L5 AND REVIEW  
 L7 7 DUP REM L6 (0 DUPLICATES REMOVED)  
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 L9 3958 S P ELEMENT  
 L10 18 S L8 AND REVIEW  
 L11 17 DUP REM L10 (1 DUPLICATE REMOVED)  
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 L13 293877 S GENETIC?/TI  
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 L16 136446 S DROSOPHILA  
 L17 18 S L15 AND L16  
 L18 15 DUP REM L17 (3 DUPLICATES REMOVED)  
 L19 26 S PROMTER  
 L20 336314 S PROMOTER  
 L21 1994508 S INDUCIBLE OR REGULAT?  
 L22 11518 S L20(A)L21  
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 L24 14 DUP REM L23 (7 DUPLICATES REMOVED)

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L3            1221 S TRANSPOS?(3A)TAG?  
L4            136446 S DROSOPHILA  
L5            175 S L3 AND L4  
L6            7 S L5 AND REVIEW  
L7            7 DUP REM L6 (0 DUPLICATES  
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L8            129 S FUNCTIONAL GENOMICS AND  
DROSOPHILA  
L9            3958 S P ELEMENT  
L10           18 S L8 AND REVIEW  
L11           17 DUP REM L10 (1 DUPLICATE  
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L13           293877 S GENETIC?/TI  
L14           1520 S L12 AND L13  
L15           111 S L14 AND REVIEW  
L16           136446 S DROSOPHILA  
L17           18 S L15 AND L16  
L18           15 DUP REM L17 (3 DUPLICATES  
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L19           26 S PROMTER  
L20           336314 S PROMOTER  
L21           1994508 S INDUCIBLE OR REGULAT?  
L22           11518 S L20(A)L21  
L23           21 S L12(S)L22

L24           14 DUP REM L23 (7 DUPLICATES  
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=> s induc? promoter  
L25           4703 INDUC? PROMOTER

=> s l12 and l25  
L26           55 L12 AND L25

=> s l26 and l4  
L27           8 L26 AND L4

=> dup rem l27  
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L28           5 DUP REM L27 (3 DUPLICATES  
REMOVED)

=> d ti so 1-5

L28 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS  
TI Protein production system in recombinant  
insects using transposon vectors  
SO PCT Int. Appl., 29 pp.  
CODEN: PIXXD2

L28 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2002 ACS  
TI PiggyBac transposon-based genetic  
transformation system for insects  
SO U.S., 101 pp.  
CODEN: USXXAM

L28 ANSWER 3 OF 5 MEDLINE  
DUPLICATE 1  
TI High-frequency generation of conditional  
mutations affecting  
**Drosophila** melanogaster development and  
life span.  
SO GENETICS, (2001 Jul) 158 (3) 1167-76.  
Journal code: 0374636. ISSN: 0016-6731.

L28 ANSWER 4 OF 5 MEDLINE  
DUPLICATE 2  
TI Repression of hybrid dysgenesis in  
**Drosophila** melanogaster by  
heat-shock-inducible sense and antisense P-  
element constructs.  
SO GENETICS, (1996 Dec) 144 (4) 1529-44.  
Journal code: 0374636. ISSN: 0016-6731.

L28 ANSWER 5 OF 5 MEDLINE  
TI Retrotransposon-induced ectopic expression  
of cut causes the Om(1A) mutant  
in **Drosophila** ananassae.  
SO GENETICS, (1994 May) 137 (1) 165-74.  
Journal code: 0374636. ISSN: 0016-6731.

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L29           160665 LIBRARY

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L4            136446 S DROSOPHILA  
L5            175 S L3 AND L4  
L6            7 S L5 AND REVIEW  
L7            7 DUP REM L6 (0 DUPLICATES  
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L8 129 S FUNCTIONAL GENOMICS AND  
DROSOPHILA  
L9 3958 S P ELEMENT  
L10 18 S L8 AND REVIEW  
L11 17 DUP REM L10 (1 DUPLICATE  
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L13 293877 S GENETIC?/TI  
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L19 26 S PROMTER  
L20 336314 S PROMOTER  
L21 1994508 S INDUCIBLE OR REGULAT?  
L22 11518 S L20(A)L21  
L23 21 S L12(S)L22  
L24 14 DUP REM L23 (7 DUPLICATES  
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L25 4703 S INDUC? PROMOTER  
L26 55 S L12 AND L25  
L27 8 S L26 AND L4  
L28 5 DUP REM L27 (3 DUPLICATES  
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L29 160665 S LIBRARY

=> s transposon or p element or transpos?  
element  
L30 41412 TRANSPOSON OR P ELEMENT OR  
TRANSPOS? ELEMENT

=> s 129 and 130  
L31 2029 L29 AND L30

=> s 129(s)130  
L32 1066 L29(S) L30

=> s 132 and 14  
L33 96 L32 AND L4

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L34 46 DUP REM L33 (50 DUPLICATES  
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=> d ti so 1-46

L34 ANSWER 1 OF 46 MEDLINE  
DUPLICATE 1  
TI dELL, a **drosophila** homologue of  
transcription elongation factor  
ELL (Eleven-nineteen Lysine rich Leukemia),  
is required for early  
development.  
SO CELL BIOCHEMISTRY AND FUNCTION, (2002 Jun)  
20 (2) 119-27.  
Journal code: 8305874. ISSN: 0263-6484.

L34 ANSWER 2 OF 46 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.  
TI Molecular characterization of a novel gene,  
DTR, which encodes a protein  
involved in neurotransmitter distribution  
and recycling.  
SO Society for Neuroscience Abstracts, (2001)  
Vol. 27, No. 1, pp. 1012.  
print.  
Meeting Info.: 31st Annual Meeting of the  
Society for Neuroscience San  
Diego, California, USA November 10-15, 2001  
ISSN: 0190-5295.

L34 ANSWER 3 OF 46 MEDLINE

DUPLICATE 2  
TI Dual-tagging gene trap of novel genes in  
**Drosophila**  
melanogaster.  
SO GENETICS, (2001 Feb) 157 (2) 727-42.  
Journal code: 0374636. ISSN: 0016-6731.

L34 ANSWER 4 OF 46 MEDLINE  
DUPLICATE 3  
TI Genome-wide insertional mutagenesis in  
human cells by the  
**Drosophila** mobile element Minos.  
SO EMBO Rep, (2000 Nov) 1 (5) 416-21.  
Journal code: 100963049. ISSN: 1469-221X.

L34 ANSWER 5 OF 46 MEDLINE  
DUPLICATE 4  
TI Molecular characterization of the maize  
Rpl-D rust resistance haplotype  
and its mutants.  
SO PLANT CELL, (1999 Jul) 11 (7) 1365-76.  
Journal code: 9208688. ISSN: 1040-4651.

L34 ANSWER 6 OF 46 MEDLINE  
DUPLICATE 5  
TI Conversion of lacZ enhancer trap lines to  
GAL4 lines using targeted  
transposition in **Drosophila** melanogaster.  
SO GENETICS, (1999 Mar) 151 (3) 1093-101.  
Journal code: 0374636. ISSN: 0016-6731.

L34 ANSWER 7 OF 46 MEDLINE  
DUPLICATE 6  
TI An exploration of the sequence of a 2.9-Mb  
region of the genome of  
**Drosophila** melanogaster: the Adh region.  
SO GENETICS, (1999 Sep) 153 (1) 179-219.  
Journal code: 0374636. ISSN: 0016-6731.

L34 ANSWER 8 OF 46 CAPLUS COPYRIGHT 2002 ACS  
TI The Berkeley **Drosophila** Genome Project gene  
disruption project:  
single P-element insertions mutating 25% of  
vital **Drosophila**  
genes  
SO Genetics (1999), 153(1), 135-177  
CODEN: GENTAE; ISSN: 0016-6731

L34 ANSWER 9 OF 46 MEDLINE  
DUPLICATE 7  
TI Zimp encodes a homologue of mouse Miz1 and  
PIAS3 and is an essential gene  
in **Drosophila** melanogaster.  
SO GENE, (1999 Mar 18) 229 (1-2) 109-16.  
Journal code: 7706761. ISSN: 0378-1119.

L34 ANSWER 10 OF 46 MEDLINE  
DUPLICATE 8  
TI Structure of the chromosome VII centromere  
region in Neurospora crassa:  
degenerate transposons and simple repeats.  
SO MOLECULAR AND CELLULAR BIOLOGY, (1998 Sep)  
18 (9) 5465-77.  
Journal code: 8109087. ISSN: 0270-7306.

L34 ANSWER 11 OF 46 MEDLINE  
DUPLICATE 9  
TI Molecular and cytological analysis of a  
mariner transposon from Hessian  
fly.  
SO JOURNAL OF HEREDITY, (1997 Jan-Feb) 88 (1)  
72-6.  
Journal code: 0375373. ISSN: 0022-1503.

L34 ANSWER 12 OF 46 MEDLINE

DUPLICATE 10  
TI Genetic transformation of **Drosophila** cells  
in culture by P  
element-mediated transposition.  
SO SOMATIC CELL AND MOLECULAR GENETICS, (1996  
Mar) 22 (2) 159-65.  
Journal code: 8403568. ISSN: 0740-7750.

L34 ANSWER 13 OF 46 MEDLINE  
DUPLICATE 11  
TI **Drosophila** *rosA* gene, which when mutant  
causes aberrant  
photoreceptor oscillation, encodes a novel  
neurotransmitter transporter  
homologue.  
SO JOURNAL OF NEUROGENETICS, (1996 Dec) 11 (1-  
2) 59-79.  
Journal code: 8406473. ISSN: 0167-7063.

L34 ANSWER 14 OF 46 MEDLINE  
DUPLICATE 11  
TI Molecular structure of the transposable  
element *ninja* in  
**Drosophila** *simulans*.  
SO GENES AND GENETIC SYSTEMS, (1996 Feb) 71  
(1) 1-8.  
Journal code: 9607822. ISSN: 1341-7568.

L34 ANSWER 15 OF 46 MEDLINE  
DUPLICATE 12  
TI *canoe* encodes a novel protein containing a  
GLGF/DHR motif and functions  
with Notch and scabrous in common  
developmental pathways in  
**Drosophila**.  
SO GENES AND DEVELOPMENT, (1995 Mar 1) 9 (5)  
612-25.  
Journal code: 8711660. ISSN: 0890-9369.

L34 ANSWER 16 OF 46 MEDLINE  
DUPLICATE 13  
TI Simple plaque hybridization method for the  
detection of differentially  
represented repetitive DNA.  
SO BIOTECHNIQUES, (1995 Feb) 18 (2) 250-5.  
Journal code: 8306785. ISSN: 0736-6205.

L34 ANSWER 17 OF 46 MEDLINE  
DUPLICATE 14  
TI Molecular analysis of the Methoprene-  
tolerant gene region of  
**Drosophila** *melanogaster*.  
SO ARCHIVES OF INSECT BIOCHEMISTRY AND  
PHYSIOLOGY, (1995) 30 (2-3) 133-47.  
Journal code: 8501752. ISSN: 0739-4462.

L34 ANSWER 18 OF 46 MEDLINE  
DUPLICATE 15  
TI Phenotypic and molecular characterization  
of *croaker*, a new mating  
behavior mutant of **Drosophila** *melanogaster*.  
SO JAPANESE JOURNAL OF GENETICS, (1995 Feb) 70  
(1) 103-17.  
Journal code: 9301272.

L34 ANSWER 19 OF 46 MEDLINE  
DUPLICATE 16  
TI Identification of a mariner element from  
the tsetse fly, *Glossina palpalis*  
*palpalis*.  
SO INSECT MOLECULAR BIOLOGY, (1995 May) 4 (2)  
89-96.  
Journal code: 9303579. ISSN: 0962-1075.

L34 ANSWER 20 OF 46 MEDLINE  
DUPLICATE 17

TI Nature screen: an efficient method for  
screening natural populations of  
**Drosophila** for targeted P-element  
insertions.  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF  
SCIENCES OF THE UNITED STATES OF  
AMERICA, (1994 Jan 18) 91 (2) 719-22.  
Journal code: 7505876. ISSN: 0027-8424.

L34 ANSWER 21 OF 46 MEDLINE  
DUPLICATE 18  
TI The relationship between DNA structural  
variation and activities of P  
elements in P and Q strains of **Drosophila**  
*melanogaster*.  
SO HEREDITY, (1994 Dec) 73 ( Pt 6) 608-15.  
Journal code: 0373007. ISSN: 0018-067X.

L34 ANSWER 22 OF 46 MEDLINE  
DUPLICATE 19  
TI The *Caenorhabditis elegans* muscle-affecting  
gene *unc-87* encodes a novel  
thin filament-associated protein.  
SO JOURNAL OF CELL BIOLOGY, (1994 Oct) 127 (1)  
79-93.  
Journal code: 0375356. ISSN: 0021-9525.

L34 ANSWER 23 OF 46 MEDLINE  
DUPLICATE 20  
TI The **Drosophila** clathrin heavy chain gene:  
clathrin function is  
essential in a multicellular organism.  
SO GENETICS, (1993 Aug) 134 (4) 1119-34.  
Journal code: 0374636. ISSN: 0016-6731.

L34 ANSWER 24 OF 46 MEDLINE  
DUPLICATE 21  
TI Cloning and molecular genetic analysis of  
**Drosophila**  
*melanogaster* interband DNA.  
SO MOLECULAR AND GENERAL GENETICS, (1993 Apr)  
238 (3) 437-43.  
Journal code: 0125036. ISSN: 0026-8925.

L34 ANSWER 25 OF 46 MEDLINE  
DUPLICATE 22  
TI The genomic organization of HeT-A  
retrotransposons in **Drosophila**  
*melanogaster*.  
SO CHROMOSOMA, (1993 May) 102 (5) 297-305.  
Journal code: 2985138R. ISSN: 0009-5915.

L34 ANSWER 26 OF 46 MEDLINE  
TI Prospects of using **Drosophila** for insect  
neuroendocrine  
research.  
SO ARCHIVES OF INSECT BIOCHEMISTRY AND  
PHYSIOLOGY, (1993) 22 (1-2) 199-231.  
Ref: 106  
Journal code: 8501752. ISSN: 0739-4462.

L34 ANSWER 27 OF 46 MEDLINE  
DUPLICATE 23  
TI Gypsy homologous sequences in **Drosophila**  
*subobscura* (*gypsyDS*).  
SO JOURNAL OF MOLECULAR EVOLUTION, (1993 Feb)  
36 (2) 127-35.  
Journal code: 0360051. ISSN: 0022-2844.

L34 ANSWER 28 OF 46 MEDLINE  
DUPLICATE 24  
TI Identification of a complete P-element in  
the genome of **Drosophila**  
*bifasciata*.  
SO NUCLEIC ACIDS RESEARCH, (1992 Feb 11) 20

- (3) 409-13.  
Journal code: 0411011. ISSN: 0305-1048.
- L34 ANSWER 29 OF 46 MEDLINE  
DUPLICATE 25  
TI Distribution and structure of cloned P elements from the **Drosophila melanogaster** P strain pi 2.  
SO GENETICAL RESEARCH, (1992 Aug) 60 (1) 33-41.  
Journal code: 0370741. ISSN: 0016-6723.
- L34 ANSWER 30 OF 46 MEDLINE  
DUPLICATE 26  
TI Evolution of the transposable element Uhu in five species of Hawaiian **Drosophila**.  
SO GENETICA, (1992) 86 (1-3) 21-35.  
Journal code: 0370740. ISSN: 0016-6707.
- L34 ANSWER 31 OF 46 MEDLINE  
DUPLICATE 27  
TI Large scale screen for transposon insertions into cloned genes.  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1991 Apr 1) 88 (7) 2731-5.  
Journal code: 7505876. ISSN: 0027-8424.
- L34 ANSWER 32 OF 46 MEDLINE  
TI A truncated P element is inserted in the transcribed region of the Cu,Zn SOD gene of an SOD "null" strain of **Drosophila melanogaster**.  
SO FREE RADICAL RESEARCH COMMUNICATIONS, (1991) 12-13 Pt 1 429-35.  
Journal code: 8709453. ISSN: 8755-0199.
- L34 ANSWER 33 OF 46 MEDLINE  
DUPLICATE 28  
TI P-related sequences in **Drosophila bifasciata**: a molecular clue to the understanding of P-element evolution in the genus **Drosophila**.  
SO JOURNAL OF MOLECULAR EVOLUTION, (1990 Dec) 31 (6) 478-84.  
Journal code: 0360051. ISSN: 0022-2844.
- L34 ANSWER 34 OF 46 MEDLINE  
DUPLICATE 29  
TI Copia RNA levels are elevated in dunce mutants and modulated by cAMP.  
SO NUCLEIC ACIDS RESEARCH, (1989 Oct 25) 17 (20) 8313-26.  
Journal code: 0411011. ISSN: 0305-1048.
- L34 ANSWER 35 OF 46 MEDLINE  
DUPLICATE 30  
TI Expression of reverse transcriptase genes in *Fulvia fulva*.  
SO MOLECULAR PLANT-MICROBE INTERACTIONS, (1989 Jul-Aug) 2 (4) 165-8.  
Journal code: 9107902. ISSN: 0894-0282.
- L34 ANSWER 36 OF 46 MEDLINE  
DUPLICATE 31  
TI The transposable portion of the genome of **Drosophila algonquin** is very different from that in *D. melanogaster*.  
SO MOLECULAR BIOLOGY AND EVOLUTION, (1989 Jan) 6 (1) 66-79.  
Journal code: 8501455. ISSN: 0737-4038.
- L34 ANSWER 37 OF 46 MEDLINE  
DUPLICATE 32  
TI Cloning and characterization of variable-sized gypsy mobile elements in **Drosophila melanogaster**.  
SO PLASMID, (1989 Jul) 22 (1) 22-31.  
Journal code: 7802221. ISSN: 0147-619X.
- L34 ANSWER 38 OF 46 MEDLINE  
DUPLICATE 33  
TI Insertional mutagenesis of the **Drosophila** genome with single P elements.  
SO SCIENCE, (1988 Mar 4) 239 (4844) 1121-8.  
Ref: 45  
Journal code: 0404511. ISSN: 0036-8075.
- L34 ANSWER 39 OF 46 MEDLINE  
DUPLICATE 34  
TI Microplasia: a retrotransposon of **Drosophila** combining structural features of DNA viruses, retroviruses and non-viral transposable elements.  
SO JOURNAL OF MOLECULAR BIOLOGY, (1988 Nov 20) 204 (2) 233-46.  
Journal code: 2985088R. ISSN: 0022-2836.
- L34 ANSWER 40 OF 46 MEDLINE  
DUPLICATE 35  
TI Smart2, a cosmid vector with a phage lambda origin for both systematic chromosome walking and P-element-mediated gene transfer in **Drosophila**.  
SO GENE, (1988 Apr 15) 64 (1) 173-7.  
Journal code: 7706761. ISSN: 0378-1119.
- L34 ANSWER 41 OF 46 MEDLINE  
DUPLICATE 36  
TI Molecular consequences of awdb3, a cell-autonomous lethal mutation of **Drosophila** induced by hybrid dysgenesis.  
SO DEVELOPMENTAL BIOLOGY, (1988 Sep) 129 (1) 169-78.  
Journal code: 0372762. ISSN: 0012-1606.
- L34 ANSWER 42 OF 46 MEDLINE  
DUPLICATE 37  
TI Molecular cloning and characterization of esterase-6, a serine hydrolase of **Drosophila**.  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1987 May) 84 (10) 3359-63.  
Journal code: 7505876. ISSN: 0027-8424.
- L34 ANSWER 43 OF 46 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
TI MOLECULAR CLONING OF A SUPPRESSOR GENE SU-S-2 OF **DROSOPHILA** BY TRANSPOSON TAGGING TECHNIQUE.  
SO KOREAN BIOCHEM J, (1987) 20 (1), 29-36.  
CODEN: KBCJAK. ISSN: 0368-4881.
- L34 ANSWER 44 OF 46 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC. DUPLICATE 38  
TI ANALYSIS OF THE EXPRESSION OF A **DROSOPHILA** GENE.  
SO NATURWISSENSCHAFTEN, (1986 (RECD 1987)) 73 (12), 719-727.  
CODEN: NATWAY. ISSN: 0028-1042.
- L34 ANSWER 45 OF 46 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

TI CLONING AND CHARACTERIZATION OF THE  
VERMILION GENE OF **DROSOPHILA**  
-MELANOGASTER.  
SO MOL GEN GENET, (1986) 202 (1), 102-107.  
CODEN: MGGEAE. ISSN: 0026-8925.

L34 ANSWER 46 OF 46 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.  
TI ISOLATION AND CHROMOSOMAL LOCALIZATION OF  
ECDYSTERONE RESPONSIVE GENES IN  
A **DROSOPHILA**-MELANOGASTER CELL LINE.  
SO CHROMOSOMA (BERL), (1984) 89 (5), 338-342.  
CODEN: CHROAU. ISSN: 0009-5915.

=> d ibib ab 43,38,31,8,6,4,3

L34 ANSWER 43 OF 46 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 1987:441882 BIOSIS  
DOCUMENT NUMBER: BA84:97720  
TITLE: MOLECULAR CLONING OF A  
SUPPRESSOR GENE SU-S-2 OF  
**DROSOPHILA** BY TRANSPOSON  
TAGGING TECHNIQUE.  
AUTHOR(S): KIM J; PARK Y S; YIM J  
CORPORATE SOURCE: DEP. MICROBIOL., SEOUL NATL.  
UNIV., SEOUL 151, KOREA.  
SOURCE: KOREAN BIOCHEM J, (1987) 20  
(1), 29-36.  
CODEN: KBCJAK. ISSN: 0368-  
4881.  
FILE SEGMENT: BA; OLD  
LANGUAGE: English  
AB The suppressor of sable mutant allele  
[su(s)2] of **Drosophila**  
melanogaster was cloned by the use of  
gypsy-**transposable**  
**element** tagging technique. The su(s)2:prbw  
cn genomic  
**library** of 8-11 kb size-range was prepared  
into the Hind III site  
of pUC 9 vector. The recombinant plasmids  
were screened with 32P-labeled  
gypsy probe and the positive clones were  
rescreened by restriction  
endonuclease analysis. The presence of  
su(s)2 sequence was confirmed by in  
situ hybridization of the biotinylated  
probe to the polytene chromosome of  
su(s)2; prbw cn, prbw cn and Oregon-R  
strains. The restriction map of the  
su(s)2 clone (named pYDS 2) was shown to be  
different from that of su(s)+.  
The pYDS 2 contained another DNA sequence,  
1.5 kb in length, besides the  
gypsy insertion.

L34 ANSWER 38 OF 46 MEDLINE  
DUPLICATE 33  
ACCESSION NUMBER: 88145666 MEDLINE  
DOCUMENT NUMBER: 88145666 PubMed ID:  
2830671  
TITLE: Insertional mutagenesis of  
the **Drosophila** genome  
with single P elements.  
AUTHOR: Cooley L; Kelley R;  
Spradling A  
CORPORATE SOURCE: Department of Embryology,  
Carnegie Institution of  
Washington, Baltimore, MD  
21210.  
SOURCE: SCIENCE, (1988 Mar 4) 239  
(4844) 1121-8. Ref: 45  
Journal code: 0404511. ISSN:

0036-8075.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL  
ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 198804  
ENTRY DATE: Entered STN: 19900308  
Last Updated on STN:

19990129 Entered Medline: 19880407  
AB A versatile genetic method for identifying  
and cloning **Drosophila**  
melanogaster genes affecting any  
recognizable phenotype is described.  
Strains are constructed in which the  
insertion of a single P  
**transposable element** has caused a new  
mutation, greatly  
simplifying the genetic and molecular  
analysis of the affected gene.  
Mutagenesis is initiated by crossing two  
strains, each of which contains a  
specially designed P **element**. One element  
(jumpstarter), encoding P **element**  
transposase,  
efficiently mobilizes the second  
nonautonomous **transposon**  
(mutator), whose structure facilitates  
selection and cloning of new  
insertion mutations. Random mutator  
transpositions are captured in  
individual stocks that no longer contain  
jumpstarter, where they remain  
stable. This method was used to construct  
1300 single P  
**element** insertion stocks which were then  
screened for recessive  
mutations. A **library** of single-element  
insertion strains will  
allow the structure and function of  
**Drosophila** genes to be  
readily correlated, and should have many  
other applications in  
**Drosophila** molecular genetics.

L34 ANSWER 31 OF 46 MEDLINE  
DUPLICATE 27  
ACCESSION NUMBER: 91187865 MEDLINE  
DOCUMENT NUMBER: 91187865 PubMed ID:  
1849274  
TITLE: Large scale screen for  
transposon insertions into cloned  
genes.  
AUTHOR: Hamilton B A; Palazzolo M J;  
Chang J H; VijayRaghavan K;  
Mayeda C A; Whitney M A;  
Meyerowitz E M  
CORPORATE SOURCE: Division of Biology,  
California Institute of Technology,  
Pasadena 91125.  
CONTRACT NUMBER: GM40499 (NIGMS)  
T32 GM07616 (NIGMS)  
SOURCE: PROCEEDINGS OF THE NATIONAL  
ACADEMY OF SCIENCES OF THE  
UNITED STATES OF AMERICA,  
(1991 Apr 1) 88 (7) 2731-5.  
Journal code: 7505876. ISSN:  
0027-8424.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL  
ARTICLE)  
LANGUAGE: English

FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199105  
ENTRY DATE: Entered STN: 19910526  
Last Updated on STN:  
19990129

Entered Medline: 19910506

AB We describe a method of screening for **transposon** insertions in or near **Drosophila** loci that correspond to cloned DNA sequences. We mobilize a modified **P element transposon** that carries a bacterial plasmid origin of replication and a drug-resistance marker. The genomic sequences flanking each **transposon** insertion site can then be rescued as a plasmid in *Escherichia coli*. **Libraries** of such plasmids, representing pools of **transposon**-mutagenized individuals, are used as hybridization probes against cloned sequences to determine whether a **transposon** has inserted next to a particular site in the genome. The number of loci that can be screened simultaneously by this procedure is quite large. We have screened an array of cDNA clones representing almost 700 distinct loci against **libraries** representing 760 mutagenized flies, and we obtained hybridization signals to 7 different cDNAs. Three of these events have been analyzed in detail and represent genuine insertions near genomic sequences that correspond to the cDNAs.

L34 ANSWER 8 OF 46 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1999:641965 CAPLUS  
DOCUMENT NUMBER: 132:147271  
TITLE: The Berkeley **Drosophila**  
Genome Project gene

disruption project:  
single P-element insertions  
mutating 25% of vital

#### **Drosophila** genes

AUTHOR(S): Spradling, Allan C.;  
Stern, Dianne; Beaton, Amy; Rhem,  
E. Jay; Laverty, Todd;  
Mozden, Nicole; Misra, Sima;

Rubin, Gerald M.  
CORPORATE SOURCE: Department of  
Embryology, Howard Hughes Medical  
Institute Research  
Laboratories, Carnegie Institution  
of Washington,

Baltimore, MD, 21210, USA  
SOURCE: Genetics (1999),  
153(1), 135-177  
CODEN: GENTAE; ISSN:

0016-6731  
PUBLISHER: Genetics Society of  
America  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB A fundamental goal of genetics and functional genomics is to identify and mutate every gene in model organisms such as **Drosophila**

*melanogaster*. The Berkeley **Drosophila** Genome Project (BDGP) gene disruption project generates single P-element insertion strains that each mutate unique genomic open reading

frames. Such strains strongly facilitate further genetic and mol. studies of the disrupted loci, but it has remained unclear if P elements can be used to mutate all

**Drosophila** genes. We now report that the primary collection has grown to contain 1045 strains that disrupt more than 25% of the estd. 3600

**Drosophila** genes that are essential for adult viability. Of these

P insertions, 67% have been verified by genetic tests to cause the assocd. recessive mutant phenotypes, and the validity of most of the remaining lines is predicted on statistical grounds. Sequences flanking >920

insertions have been detd. to exactly position them in the genome and to identify 376 potentially affected transcripts from collections of EST sequences. Strains in the BDGP collection are available from the

Bloomington Stock Center and have already assisted the research community in characterizing >250 **Drosophila** genes. The likely identify of

131 addnl. genes in the collection is reported here. Our results show

that **Drosophila** genes have a wide range of sensitivity to

inactivation by P elements, and provide a rationale for greatly expanding the BDGP primary collection based entirely on insertion site sequencing.

We predict that this approach can bring >85% of all **Drosophila**

open reading frames under exptl. control. REFERENCE COUNT: 215 THERE ARE 215

CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL  
CITATIONS AVAILABLE IN THE RE  
FORMAT

L34 ANSWER 6 OF 46 MEDLINE

DUPLICATE 5

ACCESSION NUMBER: 1999160566 MEDLINE  
DOCUMENT NUMBER: 99160566 PubMed ID:  
10049925

TITLE: Conversion of lacZ enhancer  
trap lines to GAL4 lines using  
targeted transposition in

#### **Drosophila**

*melanogaster*.  
AUTHOR: Sepp K J; Auld V J  
CORPORATE SOURCE: Department of Zoology,  
University of British Columbia,  
Vancouver, British Columbia,  
V6T 1Z4, Canada.  
SOURCE: GENETICS, (1999 Mar) 151 (3)  
1093-101.

Journal code: 0374636. ISSN:

0016-6731.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL  
ARTICLE)

LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199905  
ENTRY DATE: Entered STN: 19990517  
Last Updated on STN:

20000114

Entered Medline: 19990506

AB Since the development of the enhancer trap technique, many large

**libraries** of nuclear localized lacZ **P-element** stocks have been generated. These lines can lend themselves to the molecular and biological characterization of new genes. However they are not as useful for the study of development of cellular morphologies. With the advent of the GAL4 expression system, enhancer traps have a far greater potential for utility in biological studies. Yet generation of GAL4 lines by standard random mobilization has been reported to have a low efficiency. To avoid this problem we have employed targeted transposition to generate glial-specific GAL4 lines for the study of glial cellular development. Targeted transposition is the precise exchange of one **P element** for another. We report the successful and complete replacement of two glial enhancer trap P[lacZ, ry+] elements with the P[GAL4, w+] element. The frequencies of transposition to the target loci were 1.3% and 0.4%. We have thus found it more efficient to generate GAL4 lines from preexisting **P-element** lines than to obtain tissue-specific expression of GAL4 by random **P-element** mobilization. It is likely that similar screens can be performed to convert many other **P-element** lines to the GAL4 system.

L34 ANSWER 4 OF 46 MEDLINE  
 DUPLICATE 3  
 ACCESSION NUMBER: 2001259231 MEDLINE  
 DOCUMENT NUMBER: 21155896 PubMed ID: 11258481  
 TITLE: Genome-wide insertional mutagenesis in human cells by the **Drosophila** mobile element Minos.  
 AUTHOR: Klinakis A G; Zagoraiou L; Vassilatis D K; Savakis C  
 CORPORATE SOURCE: Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology, Hellas, Heraklion, Greece.  
 SOURCE: EMBO Rep, (2000 Nov) 1 (5) 416-21.  
 Journal code: 100963049.  
 ISSN: 1469-221X.  
 PUB. COUNTRY: England: United Kingdom  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 200105  
 ENTRY DATE: Entered STN: 20010521  
 Last Updated on STN: 20010521

Entered Medline: 20010517  
 AB The development of efficient non-viral methodologies for genome-wide insertional mutagenesis and gene tagging in mammalian cells is highly desirable for functional genomic analysis. Here we describe **transposon** mediated mutagenesis (TRAMM),

using naked DNA vectors based on the **Drosophila hydei transposable element** Minos. By simple transfections of plasmid Minos vectors in HeLa cells, we have achieved high frequency generation of cell lines, each containing one or more stable chromosomal integrations. The Minos-derived vectors insert in different locations in the mammalian genome. Genome-wide mutagenesis in HeLa cells was demonstrated by using a Minos **transposon** containing a lacZ-neo gene-trap fusion to generate a HeLa cell **library** of at least 10(5) **transposon** insertions in active genes. Multiple gene traps for six out of 12 active genes were detected in this **library**. Possible applications of Minos-based TRAMM in functional genomics are discussed.

L34 ANSWER 3 OF 46 MEDLINE  
 DUPLICATE 2  
 ACCESSION NUMBER: 2001285115 MEDLINE  
 DOCUMENT NUMBER: 21100348 PubMed ID: 11156992  
 TITLE: Dual-tagging gene trap of novel genes in **Drosophila** melanogaster.  
 AUTHOR: Lukacsovich T; Asztalos Z; Awano W; Baba K; Kondo S; Niwa S; Yamamoto D  
 CORPORATE SOURCE: School of Human Sciences and Advanced Research Institute for Science and Engineering, Waseda University, Saitama 359-1192, Japan.  
 SOURCE: GENETICS, (2001 Feb) 157 (2) 727-42.  
 Journal code: 0374636. ISSN: 0016-6731.  
 PUB. COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 OTHER SOURCE: GENBANK-AB028139  
 ENTRY MONTH: 200105  
 ENTRY DATE: Entered STN: 20010529  
 Last Updated on STN: 20010529  
 Entered Medline: 20010524  
 AB A gene-trap system is established for **Drosophila**. Unlike the conventional enhancer-trap system, the gene-trap system allows the recovery only of fly lines whose genes are inactivated by a **P-element** insertion, i.e., mutants. In the gene-trap system, the reporter gene expression reflects precisely the spatial and temporal expression pattern of the trapped gene. Flies in which gene trap occurred are identified by a two-step screening process using two independent markers, mini-w and Gal4, each indicating the integration of the vector downstream of the promoter of a gene (dual tagging). mini-w has its own promoter but lacks a polyadenylation signal. Therefore, mini-w mRNA is transcribed from its own promoter



regardless of the vector integration site in the genome. However, the eyes of flies are not orange or red unless the vector is incorporated into a gene enabling mini-w to be spliced to a downstream exon of the host gene and polyadenylated at the 3' end. The promoter-less Gal4 reporter is expressed as a fusion mRNA only when it is integrated downstream of the promoter of a host gene. The exons of trapped genes can be readily cloned by vectorette RT-PCR, followed by RACE and PCR using cDNA **libraries**. Thus, the dual-tagging gene-trap system provides a means for (i) efficient mutagenesis, (ii) unequivocal identification of genes responsible for mutant phenotypes, (iii) precise detection of expression patterns of trapped genes, and (iv) rapid cloning of trapped genes.

=> d his

(FILE 'HOME' ENTERED AT 11:01:04 ON 05 SEP 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 11:01:19 ON 05 SEP 2002

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L1      920 S TRANSPOSON TAG?
L2      933 S TRANSPOS? TAG?
L3      1221 S TRANSPOS?(3A)TAG?
L4      136446 S DROSOPHILA
L5      175 S L3 AND L4
L6      7 S L5 AND REVIEW
L7      7 DUP REM L6 (0 DUPLICATES
REMOVED)
L8      129 S FUNCTIONAL GENOMICS AND
DROSOPHILA
L9      3958 S P ELEMENT
L10     18 S L8 AND REVIEW
L11     17 DUP REM L10 (1 DUPLICATE
REMOVED)
L12     20217 S TRANSPOS? ELEMENT?
L13     293877 S GENETIC?/TI
L14     1520 S L12 AND L13
L15     111 S L14 AND REVIEW
L16     136446 S DROSOPHILA
L17     18 S L15 AND L16
L18     15 DUP REM L17 (3 DUPLICATES
REMOVED)
L19     26 S PROMTER
L20     336314 S PROMOTER
L21     1994508 S INDUCIBLE OR REGULAT?
L22     11518 S L20(A)L21
L23     21 S L12(S)L22
L24     14 DUP REM L23 (7 DUPLICATES
REMOVED)
L25     4703 S INDUC? PROMOTER
L26     55 S L12 AND L25
L27     8 S L26 AND L4
L28     5 DUP REM L27 (3 DUPLICATES
REMOVED)
L29     160665 S LIBRARY
L30     41412 S TRANSPOSON OR P ELEMENT OR
TRANSPOS? ELEMENT
L31     2029 S L29 AND L30
L32     1066 S L29(S)L30
L33     96 S L32 AND L4
L34     46 DUP REM L33 (50 DUPLICATES
REMOVED)
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=> log hold

COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY SESSION  
FULL ESTIMATED COST  
166.11 166.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
SINCE FILE TOTAL

ENTRY SESSION  
CA SUBSCRIBER PRICE  
-4.34 -4.34

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 12:50:31  
ON 05 SEP 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1636DXS

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN  
International \* \* \* \* \*

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NEWS 1      Web Page URLs for STN Seminar
Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around
the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and
Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications
available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available
in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now
available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress
(FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search
results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains
STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28,
2002;
saved answer sets no longer
valid
NEWS 14 Jul 29 Enhanced polymer searching in
REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from
STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) -
new on STN
NEWS 18 Aug 08 NTIS has been reloaded and
enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information
Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB
have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of
TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY
```

enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and  
enhanced

NEWS EXPRESS February 1 CURRENT WINDOWS  
VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS  
V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS  
DATED 05 FEBRUARY 2002  
NEWS HOURS STN Operating Hours Plus Help  
Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication  
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\* \* \* \* \*

FILE 'HOME' ENTERED AT 13:56:03 ON 05 SEP 2002

=> file medline biosis caplus  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY	SESSION
FULL ESTIMATED COST	
0.21	0.21

FILE 'MEDLINE' ENTERED AT 13:56:13 ON 05 SEP  
2002

FILE 'BIOSIS' ENTERED AT 13:56:13 ON 05 SEP 2002  
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(ACS)

=> s proc natl acad sci/so  
L1 156259 PROC NATL ACAD SCI/SO

=> s l1 and 93 and 12418  
L2 0 L1 AND 93 AND 12418

=> d ti so 1-10  
L2 HAS NO ANSWERS  
'1-10 ' IS NOT A VALID SEARCH STATUS KEYWORD  
Search status keywords:  
NONE ---- Display only the number of postings.  
STATUS -- Display statistics of the search.

ENTER SEARCH STATUS OPTION (NONE), STATUS, OR  
?:end

=> d l1 ti so 1

L1 ANSWER 1 OF 156259 MEDLINE  
TI Selective impairment of reasoning about  
social exchange in a patient with  
bilateral limbic system damage.  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF  
SCIENCES OF THE UNITED STATES OF  
AMERICA, (2002 Aug 20) 99 (17) 11531-6.  
Journal code: 7505876. ISSN: 0027-8424.

=> s 99/so  
L3 292671 99/SO

=> s 12418-12422/so  
L4 5 12418-12422/SO

=> dup rem l4  
PROCESSING COMPLETED FOR L4  
L5 3 DUP REM L4 (2 DUPLICATES  
REMOVED)

=> d ti so l5

L5 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.DUPLICATE 1  
TI Pathways of induction of peroxiredoxin I  
expression in osteoblasts. Roles  
of p38 mitogen-activated protein kinase and  
protein kinase C.  
SO Journal of Biological Chemistry, (April 5,  
2002) Vol. 277, No. 14, pp.  
**12418-12422**. <http://www.jbc.org/>. print.  
ISSN: 0021-9258.

=> d ti so 1-3

L5 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.DUPLICATE 1  
TI Pathways of induction of peroxiredoxin I  
expression in osteoblasts. Roles  
of p38 mitogen-activated protein kinase and  
protein kinase C.  
SO Journal of Biological Chemistry, (April 5,  
2002) Vol. 277, No. 14, pp.  
**12418-12422**. <http://www.jbc.org/>. print.  
ISSN: 0021-9258.

L5 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.DUPLICATE 2  
TI A modular misexpression screen in  
Drosophila detecting tissue-specific  
phenotypes.  
SO Proceedings of the National Academy of  
Sciences of the United States of  
America, (1996) Vol. 93, No. 22, pp. **12418-  
12422**.  
ISSN: 0027-8424.

L5 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.  
TI Eicosanoids mediate insect nodulation  
responses to bacterial infections.  
SO Proceedings of the National Academy of  
Sciences of the United States of  
America, (1994) Vol. 91, No. 26, pp. **12418-  
12422**.  
ISSN: 0027-8424.

=> d his

(FILE 'HOME' ENTERED AT 13:56:03 ON 05 SEP 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 13:56:13 ON 05 SEP 2002

L1 156259 S PROC NATL ACAD SCI/SO  
L2 0 S L1 AND 93 AND 12418  
L3 292671 S 99/SO  
L4 5 S 12418-12422/SO  
L5 3 DUP REM L4 (2 DUPLICATES  
REMOVED)

=> s l1 and l4

L6 1 L1 AND L4

=> s l1 <cite>

#### SmartSELECT INITIATED

New TRANSFER and ANALYZE Commands Now Available  
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SET SMARTSELECT ON  
SET COMMAND COMPLETED

SEL L1 1- CITE  
TOO MANY ANSWER NUMBERS SPECIFIED  
No more than 50000 answers may be specified.  
ENTER ANSWER NUMBER OR RANGE (1-):end

=> SET SMARTSELECT OFF  
SET COMMAND COMPLETED

=> s l6 <cite>

#### SmartSELECT INITIATED

New TRANSFER and ANALYZE Commands Now Available  
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SEL L6 1- CITE  
'CITE' IS NOT A VALID FIELD CODE FOR FILE  
'CAPLUS'

The following are valid field codes:

AB ----- Abstract Text  
AC ----- Patent Application Country  
AD ----- Patent Application Date  
AI ----- Patent Application Information  
AN ----- Accession Number  
AP ----- Patent Application Number  
APPS ---- Patent Application and Priority Number  
AU ----- Author or Patent Inventor  
AY ----- Patent Application Year  
CC ----- CA Classification Codes  
CK ----- Crossover Key  
CS ----- Corporate Source or Patent Assignee  
CS.DIV -- Corporate Source, Division  
CS.ORG -- Corporate Source, Organization Name  
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CYA ----- Country Name of Author  
DS ----- Designated States (Patents)  
DT ----- Document Type  
FAN ----- Family Accession Number  
FS ----- File Segment  
GENBANK - GENBANK Number  
IC ----- International Patent Classification (IPC)  
ICA ----- Additional (Supplementary) IPC  
ICI ----- Index (Complementary) IPC  
ICM ----- Main IPC  
ICS ----- Secondary IPC  
IN ----- Inventor Name

ISN ----- International Standard (Document)  
Number

ISSN----- ISSN

IPC ----- International Patent Classifications

IT ----- Index Entries

JT ----- Journal Title

LA ----- Language

NCL----- National Patent Classification Code

OS ----- Other Source

PA ----- Patent Assignee

PATS----- Patent Numbers

PC ----- Patent Country

PCS ----- Patent Countries

PD ----- Publication Date

PI ----- Patent Information

PK ----- Kind of Patent

PN ----- Patent Number

PRAI ---- Patent Priority Information

PRC ----- Patent Priority Country

PRD ----- Patent Priority Date

PRN ----- Patent Priority Number

PRY ----- Patent Priority Year

PY ----- Publication Year of Original Document

RE ----- Reference

REC ----- Reference Count

RAN.CA -- Reference CA File Accession Number

RAN.CAPLUS --- Reference CAPLUS File Accession  
Number

RAN.MEDLINE -- Reference MEDLINE File Accession  
Number

RAN.ALL ----- Reference Accession Numbers for  
All Files

RIN ----- Reference Inventor

RAU ----- Reference Author

RWK ----- Reference Work

RPG ----- Reference Page Number

RPN ----- Reference Patent Number

RPY ----- Reference Publication Year

RVL ----- Reference Publication Volume

RL ----- Roles

RN ----- CAS Registry Number

SO ----- Source

ST ----- Supplementary Terms (CA Keywords)

SX ----- Chemical Abstract Section Cross-  
Reference Code

TI ----- Title of Document

ENTER DISPLAY CODE (TI) OR ?:cite

'CITE' IS NOT A VALID FIELD CODE FOR FILE  
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AB ----- Abstract Text  
AC ----- Patent Application Country  
AD ----- Patent Application Date  
AI ----- Patent Application Information  
AN ----- Accession Number  
AP ----- Patent Application Number  
APPS ---- Patent Application and Priority Number  
AU ----- Author or Patent Inventor  
AY ----- Patent Application Year  
CC ----- CA Classification Codes  
CK ----- Crossover Key  
CS ----- Corporate Source or Patent Assignee  
CS.DIV -- Corporate Source, Division  
CS.ORG -- Corporate Source, Organization Name  
CT ----- Controlled Term  
CYA ----- Country Name of Author  
DS ----- Designated States (Patents)  
DT ----- Document Type  
FAN ----- Family Accession Number  
FS ----- File Segment  
GENBANK - GENBANK Number  
IC ----- International Patent Classification (IPC)  
ICA ----- Additional (Supplementary) IPC  
ICI ----- Index (Complementary) IPC

ICM ----- Main IPC  
 ICS ----- Secondary IPC  
 IN ----- Inventor Name  
 ISN ----- International Standard (Document)  
 Number  
 ISSN----- ISSN  
 IPC ----- International Patent Classifications  
 IT ----- Index Entries  
 JT ----- Journal Title  
 LA ----- Language  
 NCL----- National Patent Classification Code  
 OS ----- Other Source  
 PA ----- Patent Assignee  
 PATS----- Patent Numbers  
 PC ----- Patent Country  
 PCS ----- Patent Countries  
 PD ----- Publication Date  
 PI ----- Patent Information  
 PK ----- Kind of Patent  
 PN ----- Patent Number  
 PRAI ---- Patent Priority Information  
 PRC ----- Patent Priority Country  
 PRD ----- Patent Priority Date  
 PRN ----- Patent Priority Number  
 PRY ----- Patent Priority Year  
 PY ----- Publication Year of Original Document  
 RE ----- Reference  
 REC ----- Reference Count  
 RAN.CA -- Reference CA File Accession Number  
 RAN.CAPLUS --- Reference CAPLUS File Accession  
 Number  
 RAN.MEDLINE -- Reference MEDLINE File Accession  
 Number  
 RAN.ALL ----- Reference Accession Numbers for  
 All Files  
 RIN ----- Reference Inventor  
 RAU ----- Reference Author  
 RWK ----- Reference Work  
 RPG ----- Reference Page Number  
 RPN ----- Reference Patent Number  
 RPY ----- Reference Publication Year  
 RVL ----- Reference Publication Volume  
 RL ----- Roles  
 RN ----- CAS Registry Number  
 SO ----- Source  
 ST ----- Supplementary Terms (CA Keywords)  
 SX ----- Chemical Abstract Section Cross-  
 Reference Code  
 TI ----- Title of Document  
 ENTER DISPLAY CODE (TI) OR ? :end

=> SET SMARTSELECT OFF  
 SET COMMAND COMPLETED

=> d his

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FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 13:56:13 ON 05 SEP 2002

L1 156259 S PROC NATL ACAD SCI/SO  
 L2 0 S L1 AND 93 AND 12418  
 L3 292671 S 99/SO  
 L4 5 S 12418-12422/SO  
 L5 3 DUP REM L4 (2 DUPLICATES  
 REMOVED)  
 L6 1 S L1 AND L4  
 SET SMARTSELECT ON  
 SET SMARTSELECT OFF  
 SET SMARTSELECT ON  
 SET SMARTSELECT OFF

=> s 16 <cit>

# SmartSELECT INITIATED

New TRANSFER and ANALYZE Commands Now Available  
 See HELP TRANSFER and HELP ANALYZE for Details

SET SMARTSELECT ON  
 SET COMMAND COMPLETED

SEL L6 1- CIT  
 L7 SEL L6 1- CIT : 1 TERM

SET SMARTSELECT OFF  
 SET COMMAND COMPLETED

S L7  
 'RE' IS NOT A VALID FIELD CODE  
 'RE' IS NOT A VALID FIELD CODE  
 L8 100 L7

=> dup rem l8  
 PROCESSING COMPLETED FOR L8  
 L9 100 DUP REM L8 (0 DUPLICATES  
 REMOVED)

=> s l8 not py>1999  
 L10 14 L8 NOT PY>1999

=> d ti so 1-14

L10 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI Ten years of enhancer detection: lessons  
 from the fly  
 SO Plant Cell (1999), 11(12), 2271-2281  
 CODEN: PLCEEW; ISSN: 1040-4651

L10 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI Organization of the ferritin genes in  
 Drosophila melanogaster  
 SO DNA and Cell Biology (1999), 18(12), 937-  
 944  
 CODEN: DCEBE8; ISSN: 1044-5498

L10 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI Sexual behavior mutants revisited.  
 Molecular and cellular basis of  
 Drosophila mating  
 SO Cellular and Molecular Life Sciences  
 (1999), 56(7/8), 634-646  
 CODEN: CMLSFI; ISSN: 1420-682X

L10 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI The Drosophila pumilio gene encodes two  
 functional protein isoforms that  
 play multiple roles in germline  
 development, gonadogenesis, oogenesis and  
 embryogenesis  
 SO Genetics (1999), 153(1), 235-250  
 CODEN: GENTAE; ISSN: 0016-6731

L10 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI An exploration of the sequence of a 2.9-Mb  
 region of the genome of  
 Drosophila melanogaster: the Adh region  
 SO Genetics (1999), 153(1), 179-219  
 CODEN: GENTAE; ISSN: 0016-6731

L10 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI The Berkeley Drosophila Genome Project gene  
 disruption project: single  
 P-element insertions mutating 25% of vital  
 Drosophila genes  
 SO Genetics (1999), 153(1), 135-177  
 CODEN: GENTAE; ISSN: 0016-6731

L10 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2002 ACS  
 TI The balance between isoforms of the prickly

LIM domain protein is critical  
for planar polarity in Drosophila imaginal  
discs  
SO Genes & Development (1999), 13(17), 2315-  
2327  
CODEN: GEDEEP; ISSN: 0890-9369

L10 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2002 ACS  
TI BAC-mediated gene-dosage analysis reveals a  
role for Zip1 (Ru49/Zfp38)  
in progenitor cell proliferation in  
cerebellum and skin  
SO Nature Genetics (1999), 22(4), 327-335  
CODEN: NGENEC; ISSN: 1061-4036

L10 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2002 ACS  
TI A fly's eye view of biology  
SO Trends Genet. (1999), 15(5), 184-190  
CODEN: TRGEE2; ISSN: 0168-9525

L10 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2002 ACS  
TI The gene search system: A method for  
efficient detection and rapid  
molecular identification of genes in  
Drosophila melanogaster  
SO Genetics (1999), 151(2), 725-737  
CODEN: GENTAE; ISSN: 0016-6731

L10 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2002 ACS  
TI Targeted expression of teashirt induces  
ectopic eyes in Drosophila  
SO Proceedings of the National Academy of  
Sciences of the United States of  
America (1998), 95(26), 15508-15512  
CODEN: PNASA6; ISSN: 0027-8424

L10 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2002 ACS  
TI Gal4 in the Drosophila female germline  
SO Mechanisms of Development (1998), 78(1,2),  
113-118  
CODEN: MEDVE6; ISSN: 0925-4773

L10 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2002 ACS  
TI Partner of Numb colocalizes with Numb  
during mitosis and directs numb  
asymmetric localization in Drosophila  
neural and muscle progenitors  
SO Cell (Cambridge, Massachusetts) (1998),  
95(2), 225-235  
CODEN: CELLB5; ISSN: 0092-8674

L10 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2002 ACS  
TI Beadex encodes an LMO protein that  
regulates Apterous LIM-homeodomain  
activity in Drosophila wing development: a  
model for LMO oncogene function  
SO Genes & Development (1998), 12(18), 2912-  
2920  
CODEN: GEDEEP; ISSN: 0890-9369

=> d ibib ab 10,9

L10 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1999:134313 CAPLUS  
DOCUMENT NUMBER: 131:40266  
TITLE: The gene search system:  
A method for efficient  
detection and rapid  
molecular identification of genes  
in Drosophila  
melanogaster  
AUTHOR(S): Toba, Gakuta; Ohsako,  
Takashi; Miyata, Naomasa;  
Ohtsuka, Tsuyoshi;

Seong, Ki-Hyeon; Aigaki, Toshiro  
CORPORATE SOURCE: Department of  
Biological Sciences, Tokyo Metropolitan  
University, Tokyo, 192-  
0397, Japan  
SOURCE: Genetics (1999),  
151(2), 725-737

CODEN: GENTAE; ISSN:  
0016-6731  
PUBLISHER: Genetics Society of  
America  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB We have constructed a P-element-based gene  
search vector for efficient  
detection of genes in Drosophila  
melanogaster. The vector contains two  
copies of the upstream activating sequence  
(UAS) enhancer adjacent to a  
core promoter, one copy near the terminal  
inverted repeats at each end of  
the vector, and oriented to direct  
transcription outward. Genes were  
detected on the basis of phenotypic changes  
caused by GAL4-dependent  
forced expression of vector-flanking DNA,  
and the transcripts were  
identified with reverse transcriptase PCR  
(RT-PCR) using the  
vector-specific primer and followed by  
direct sequencing. The system had  
a greater sensitivity than those already in  
use for gain-of-function  
screening: 64% of the vector insertion  
lines (394/613) showed phenotypes  
with forced expression of vector-flanking  
DNA, such as lethality or  
defects in adult structure. Mol. anal. of  
170 randomly selected  
insertions with forced expression  
phenotypes revealed that 21% matched the  
sequences of cloned genes, and 18% matched  
reported expressed sequence  
tags (ESTs). Of the insertions in cloned  
genes, 83% were upstream of the  
protein-coding region. We discovered two  
new genes that showed sequence  
similarity to human genes, Ras-related  
protein 2 and microsomal  
glutathione S-transferase. The system can  
be useful as a tool for the  
functional mapping of the Drosophila  
genome.

REFERENCE COUNT: 34 THERE ARE 34  
CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL  
CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1999:329584 CAPLUS  
TITLE: A fly's eye view of  
biology  
AUTHOR(S): Thomas, Barbara J.;  
Wassarman, David A.  
CORPORATE SOURCE: Laboratory of  
Biochemistry, National Cancer Institute,  
National Institutes of  
Health, Bethesda, MD, 20892,  
USA  
SOURCE: Trends Genet. (1999),  
15(5), 184-190  
CODEN: TRGEE2; ISSN:  
0168-9525  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal

LANGUAGE: English  
 AB Detg. how genes function in developmentally complex multicellular organisms can be a formidable task. Obstacles arise from the fact that inactivation of most genes results in subtle or undetectable phenotypic alterations, and when phenotypes are obsd. they are often difficult to interpret because most genes play multiple roles in development. New techniques that have been applied to studying genes in the developing Drosophila eye promise to circumvent these obstacles. The advent of these techniques combined with the existing wealth of information about cellular pattern formation in the Drosophila eye make the eye a powerful model system for deciphering the function of genes in biol. processes.  
 REFERENCE COUNT: 49 THERE ARE 49  
 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL  
 CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

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L1 156259 S PROC NATL ACAD SCI/SO  
 L2 0 S L1 AND 93 AND 12418  
 L3 292671 S 99/SO  
 L4 5 S 12418-12422/SO  
 L5 3 DUP REM L4 (2 DUPLICATES  
 REMOVED)  
 L6 1 S L1 AND L4  
 SET SMARTSELECT ON  
 SET SMARTSELECT OFF  
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 SET SMARTSELECT ON  
 L7 SEL L6 1- CIT : 1 TERM  
 SET SMARTSELECT OFF  
 L8 100 S L7  
 L9 100 DUP REM L8 (0 DUPLICATES  
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 L10 14 S L8 NOT PY>1999

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 COST IN U.S. DOLLARS  
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ENTRY SESSION  
 FULL ESTIMATED COST  
 58.37 58.58

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
 SINCE FILE TOTAL

ENTRY SESSION  
 CA SUBSCRIBER PRICE  
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 ON 05 SEP 2002

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PASSWORD:  
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 the clock  
 NEWS 3 Apr 09 BEILSTEIN: Reload and  
 Implementation of a New Subject Area  
 NEWS 4 Apr 09 ZDB will be removed from STN  
 NEWS 5 Apr 19 US Patent Applications  
 available in IFICDB, IFIPAT, and IFIUDB  
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 NEWS 8 Apr 22 Federal Research in Progress  
 (FEDRIP) now available  
 NEWS 9 Jun 03 New e-mail delivery for search  
 results now available  
 NEWS 10 Jun 10 MEDLINE Reload  
 NEWS 11 Jun 10 PCTFULL has been reloaded  
 NEWS 12 Jul 02 FOREGE no longer contains  
 STANDARDS file segment  
 NEWS 13 Jul 22 USAN to be reloaded July 28,  
 2002;  
 valid saved answer sets no longer  
 NEWS 14 Jul 29 Enhanced polymer searching in  
 REGISTRY  
 NEWS 15 Jul 30 NETFIRST to be removed from  
 STN  
 NEWS 16 Aug 08 CANCERLIT reload  
 NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) -  
 new on STN  
 NEWS 18 Aug 08 NTIS has been reloaded and  
 enhanced  
 NEWS 19 Aug 19 Aquatic Toxicity Information  
 Retrieval (AQUIRE)  
 now available on STN  
 NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB  
 have been reloaded  
 NEWS 21 Aug 19 The MEDLINE file segment of  
 TOXCENTER has been reloaded  
 NEWS 22 Aug 26 Sequence searching in REGISTRY  
 enhanced  
 NEWS 23 Sep 03 JAPIO has been reloaded and  
 enhanced  
 NEWS EXPRESS February 1 CURRENT WINDOWS  
 VERSION IS V6.0d,  
 CURRENT MACINTOSH VERSION IS  
 V6.0a(ENG) AND V6.0Ja(JP),  
 AND CURRENT DISCOVER FILE IS  
 DATED 05 FEBRUARY 2002  
 NEWS HOURS STN Operating Hours Plus Help  
 Desk Availability  
 NEWS INTER General Internet Information  
 NEWS LOGIN Welcome Banner and News Items  
 NEWS PHONE Direct Dial and Telecommunication  
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 NEWS WWW CAS World Wide Web Site (general  
 information)

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\* \* \* \* \*

FILE 'HOME' ENTERED AT 11:42:09 ON 13 SEP 2002

=> file medline biosis caplus  
COST IN U.S. DOLLARS  
SINCE FILE TOTAL

ENTRY	SESSION
FULL ESTIMATED COST	
0.21	0.21

FILE 'MEDLINE' ENTERED AT 11:42:27 ON 13 SEP 2002

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=> s drosophila  
L1 136709 DROSOPHILA

=> s l1 not melanogaster  
L2 68303 L1 NOT MELANOGASTER

=> s genetics  
L3 2121416 GENETICS

=> s l2 and l3  
L4 28264 L2 AND L3

=> s l4 and review  
L5 725 L4 AND REVIEW

=> s l5 not py<1998  
2 FILES SEARCHED...  
L6 340 L5 NOT PY<1998

=> dup rem l6  
PROCESSING COMPLETED FOR L6  
L7 279 DUP REM L6 (61 DUPLICATES REMOVED)

=> d ti so 1-20

L7 ANSWER 1 OF 279 CAPLUS COPYRIGHT 2002 ACS  
TI Another arrow in the **Drosophila** quiver  
SO Proceedings of the National Academy of Sciences of the United States of America (2002), 99(15), 9607-9608  
CODEN: PNASA6; ISSN: 0027-8424

L7 ANSWER 2 OF 279 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.

TI The emerging conceptual framework of evolutionary developmental biology.

SO Nature (London), (14 February, 2002) Vol. 415, No. 6873, pp. 757-764.  
<http://www.nature.com/nature/>. print.  
ISSN: 0028-0836.

L7 ANSWER 3 OF 279 MEDLINE

TI Epithelial sodium channel/degenerin family of ion channels: a variety of functions for a shared structure.

SO PHYSIOLOGICAL REVIEWS, (2002 Jul) 82 (3) 735-67. Ref: 274  
Journal code: 0231714. ISSN: 0031-9333.

L7 ANSWER 4 OF 279 CAPLUS COPYRIGHT 2002 ACS  
TI Genetic models meet trophic mechanisms: EGF family members are

gliatrophins in **Drosophila**  
SO Neuron (2002), 33(5), 673-675  
CODEN: NERNET; ISSN: 0896-6273

L7 ANSWER 5 OF 279 MEDLINE

DUPLICATE 1

TI GIPC gene family (**Review**).

SO INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, (2002 Jun) 9 (6) 585-9. Ref: 60  
Journal code: 9810955. ISSN: 1107-3756.

L7 ANSWER 6 OF 279 MEDLINE

DUPLICATE 2

TI Many ways to telomere dysfunction: in vivo studies using mouse models.

SO ONCOGENE, (2002 Jan 21) 21 (4) 584-91. Ref: 105  
Journal code: 8711562. ISSN: 0950-9232.

L7 ANSWER 7 OF 279 MEDLINE

TI Cyclase-associated proteins: CAPacity for linking signal transduction and actin polymerization.

SO FASEB JOURNAL, (2002 Apr) 16 (6) 487-99. Ref: 82  
Journal code: 8804484. ISSN: 1530-6860.

L7 ANSWER 8 OF 279 MEDLINE

TI Bioinformatics and type II G-protein-coupled receptors.

SO BIOCHEMICAL SOCIETY TRANSACTIONS, (2002) 30 (4) 473-9.  
Journal code: 7506897. ISSN: 0300-5127.

L7 ANSWER 9 OF 279 CAPLUS COPYRIGHT 2002 ACS

TI Neurospora: A model of model microbes

SO Nature Reviews Genetics (2002), 3(5), 397-403  
CODEN: NRGAAAM; ISSN: 1471-0056

L7 ANSWER 10 OF 279 CAPLUS COPYRIGHT 2002 ACS

TI The emergence of hymenopteran **genetics**

SO Genetics (2002), 160(2), 375-379  
CODEN: GENTAE; ISSN: 0016-6731

L7 ANSWER 11 OF 279 MEDLINE

TI Patterns of linkage disequilibrium in the human genome.

SO Nat Rev Genet, (2002 Apr) 3 (4) 299-309. Ref: 81  
Journal code: 100962779. ISSN: 1471-0056.

L7 ANSWER 12 OF 279 BIOSIS COPYRIGHT 2002

BIOLOGICAL ABSTRACTS INC.  
 TI Developmental roles of heparan sulfate  
 proteoglycans: A comparative  
**review** in **Drosophila**, mouse and human.  
 SO International Journal of Developmental  
 Biology, (May, 2002) Vol. 46, No.  
 3, pp. 267-278. print.  
 ISSN: 0214-6282.

L7 ANSWER 13 OF 279 MEDLINE  
 TI Genomic plasticity, energy allocations, and  
 the extended longevity  
 phenotypes of **Drosophila**.  
 SO Ageing Res Rev, (2002 Apr) 1 (2) 209-28.  
 Ref: 59  
 Journal code: 101128963. ISSN: 1568-1637.

L7 ANSWER 14 OF 279 BIOSIS COPYRIGHT 2002  
 BIOLOGICAL ABSTRACTS INC.  
 TI Isolation and community: A **review** of the  
 role of gap-junctional  
 communication in embryonic patterning.  
 SO Journal of Membrane Biology, (February 1,  
 2002) Vol. 185, No. 3, pp.  
 177-192. print.  
 ISSN: 0022-2631.

L7 ANSWER 15 OF 279 MEDLINE  
 TI Mechanisms of ageing: public or private?.  
 SO Nat Rev Genet, (2002 Mar) 3 (3) 165-75.  
 Ref: 102  
 Journal code: 100962779. ISSN: 1471-0056.

L7 ANSWER 16 OF 279 MEDLINE  
 DUPLICATE 3  
 TI Ecdysone-regulated puff genes 2000.  
 SO INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY,  
 (2002 Feb) 32 (2) 113-20. Ref:  
 42  
 Journal code: 9207282. ISSN: 0965-1748.

L7 ANSWER 17 OF 279 MEDLINE  
 TI How **Drosophila** combats microbial infection:  
 a model to study  
 innate immunity and host-pathogen  
 interactions.  
 SO CURRENT OPINION IN MICROBIOLOGY, (2002 Feb)  
 5 (1) 102-10. Ref: 74  
 Journal code: 9815056. ISSN: 1369-5274.

L7 ANSWER 18 OF 279 MEDLINE  
 DUPLICATE 4  
 TI Junctions as organizing centers in  
 epithelial cells? A fly perspective.  
 SO TRAFFIC, (2002 Feb) 3 (2) 92-7. Ref: 35  
 Journal code: 100939340. ISSN: 1398-9219.

L7 ANSWER 19 OF 279 MEDLINE  
 DUPLICATE 5  
 TI Combinatorial RNAi: a method for evaluating  
 the functions of gene families  
 in **Drosophila**.  
 SO TRENDS IN NEUROSCIENCES, (2002 Feb) 25 (2)  
 71-4. Ref: 14  
 Journal code: 7808616. ISSN: 0166-2236.

L7 ANSWER 20 OF 279 CAPLUS COPYRIGHT 2002  
 ACS  
 TI **Drosophila**: the star of **genetics** flies  
 forever  
 SO Saibo Kogaku (2002), 21(1), 63-68  
 CODEN: SAKOEO; ISSN: 0287-3796

=> d ibib ab 1

L7 ANSWER 1 OF 279 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 2002:576278 CAPLUS  
 TITLE: Another arrow in the  
**Drosophila** quiver  
 AUTHOR(S): Kornberg, Thomas  
 CORPORATE SOURCE: Department of  
 Biochemistry and Biophysics, University  
 of California, San  
 Francisco, CA, 94143, USA  
 SOURCE: Proceedings of the  
 National Academy of Sciences of the  
 United States of  
 America (2002), 99(15), 9607-9608  
 CODEN: PNASA6; ISSN:  
 0027-8424  
 PUBLISHER: National Academy of  
 Sciences  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 AB A **review** describes the development of a new  
 potentially powerful  
 genetic technique for **Drosophila genetics**.  
 Huet et  
 al. (2002) devised a method to efficiently  
 produce nested sets of  
 deletions which involves a hybrid  
 transposable element that includes  
 components of two transposable elements, P  
 and hobo, as well as two  
**Drosophila** genes, yellow and white, that  
 are used for phenotypic  
 selection. They created two nested sets  
 starting with two independent  
 P{wHy} lines. These deletions extended  
 from 216 to 400 kbp, with smaller  
 deletions being the most common. Gene  
 tests suggest that 60 kbp was the  
 range within which the d. of deletion was  
 adequately high that deletion  
 could distinguish every transcription unit  
 in the region adjacent to  
 original transposon. The sets of nested  
 deletions are useful to resolve  
 complementation of extant alleles, to  
 create null conditions by generating  
 trans-heterozygous pairs of deletions, and  
 to analyze genetic functions  
 that are refractory to std. genetic  
 approaches.  
 REFERENCE COUNT: 13 THERE ARE 13  
 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL  
 CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 11:42:09 ON 13 SEP  
 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT  
 11:42:27 ON 13 SEP 2002

L1 136709 S DROSOPHILA  
 L2 68303 S L1 NOT MELANOGASTER  
 L3 2121416 S GENETICS  
 L4 28264 S L2 AND L3  
 L5 725 S L4 AND REVIEW  
 L6 340 S L5 NOT PY<1998  
 L7 279 DUP REM L6 (61 DUPLICATES  
 REMOVED)

=> s drosophila/ti  
 L8 84916 DROSOPHILA/TI



=> s l7 and l8  
L9 76 L7 AND L8

=> d ti so -150

L9 ANSWER 1 OF 76 MEDLINE  
TI Genomic plasticity, energy allocations, and the extended longevity phenotypes of **Drosophila**.  
SO Ageing Res Rev, (2002 Apr) 1 (2) 209-28.  
Ref: 59  
Journal code: 101128963. ISSN: 1568-1637.

L9 ANSWER 2 OF 76 MEDLINE  
TI It takes guts: the **Drosophila** hindgut as a model system for organogenesis.  
SO DEVELOPMENTAL BIOLOGY, (2002 Mar 1) 243 (1) 1-19. Ref: 170  
Journal code: 0372762. ISSN: 0012-1606.

L9 ANSWER 3 OF 76 MEDLINE  
TI How **Drosophila** combats microbial infection: a model to study innate immunity and host-pathogen interactions.  
SO CURRENT OPINION IN MICROBIOLOGY, (2002 Feb) 5 (1) 102-10. Ref: 74  
Journal code: 9815056. ISSN: 1369-5274.

L9 ANSWER 4 OF 76 MEDLINE  
TI Combinatorial RNAi: a method for evaluating the functions of gene families in **Drosophila**.  
SO TRENDS IN NEUROSCIENCES, (2002 Feb) 25 (2) 71-4. Ref: 14  
Journal code: 7808616. ISSN: 0166-2236.

L9 ANSWER 5 OF 76 MEDLINE  
TI **Drosophila** as a focus in olfactory research: mapping of olfactory sensilla by fine structure, odor specificity, odorant receptor expression, and central connectivity.  
SO MICROSCOPY RESEARCH AND TECHNIQUE, (2001 Dec 1) 55 (5) 284-96. Ref: 93  
Journal code: 9203012. ISSN: 1059-910X.

L9 ANSWER 6 OF 76 MEDLINE  
TI **Genetics** of the **Drosophila** flight muscle myofibril: a window into the biology of complex systems.  
SO BIOESSAYS, (2001 Nov) 23 (11) 1047-63.  
Ref: 85  
Journal code: 8510851. ISSN: 0265-9247.

L9 ANSWER 7 OF 76 MEDLINE  
TI Generating patterns from fields of cells. Examples from **Drosophila** segmentation.  
SO EMBO Rep, (2001 Dec) 2 (12) 1083-8. Ref: 35  
Journal code: 100963049. ISSN: 1469-221X.

L9 ANSWER 8 OF 76 MEDLINE  
TI Cell proliferation, survival, and death in the **Drosophila** eye.  
SO SEMINARS IN CELL AND DEVELOPMENTAL BIOLOGY, (2001 Dec) 12 (6) 499-507.  
Ref: 48  
Journal code: 9607332. ISSN: 1084-9521.

L9 ANSWER 9 OF 76 MEDLINE  
TI Molecular mechanisms of developmental timing in *C. elegans* and

# **Drosophila**.

SO Dev Cell, (2001 Oct) 1 (4) 453-65. Ref: 97  
Journal code: 101120028. ISSN: 1534-5807.

L9 ANSWER 10 OF 76 MEDLINE  
TI Translational regulation and RNA localization in **Drosophila** oocytes and embryos.  
SO ANNUAL REVIEW OF GENETICS, (2001) 35 365-406. Ref: 272  
Journal code: 0117605. ISSN: 0066-4197.

L9 ANSWER 11 OF 76 MEDLINE  
TI Divide and conquer: pattern formation in **Drosophila** embryonic epidermis.  
SO TRENDS IN GENETICS, (2001 Oct) 17 (10) 574-9. Ref: 57  
Journal code: 8507085. ISSN: 0168-9525.

L9 ANSWER 12 OF 76 MEDLINE  
TI Photoc entrainment of the circadian clock: from **Drosophila** to mammals.  
SO SEMINARS IN CELL AND DEVELOPMENTAL BIOLOGY, (2001 Aug) 12 (4) 317-28.  
Ref: 113  
Journal code: 9607332. ISSN: 1084-9521.

L9 ANSWER 13 OF 76 MEDLINE  
TI The **Drosophila** circadian clock: what we know and what we don't know.  
SO SEMINARS IN CELL AND DEVELOPMENTAL BIOLOGY, (2001 Aug) 12 (4) 287-93.  
Ref: 56  
Journal code: 9607332. ISSN: 1084-9521.

L9 ANSWER 14 OF 76 MEDLINE  
TI **Drosophila** telomeric transgenes provide insights on mechanisms of gene silencing.  
SO GENETICA, (2000) 109 (1-2) 25-33. Ref: 57  
Journal code: 0370740. ISSN: 0016-6707.

L9 ANSWER 15 OF 76 MEDLINE  
TI Surprises from **Drosophila**: genetic mechanisms of synaptic development and plasticity.  
SO BRAIN RESEARCH BULLETIN, (2000 Nov 15) 53 (5) 501-11. Ref: 104  
Journal code: 7605818. ISSN: 0361-9230.

L9 ANSWER 16 OF 76 MEDLINE  
TI Genetic studies in **Drosophila**: vesicle pools and cytoskeleton-based regulation of synaptic transmission.  
SO NEUROREPORT, (2000 Dec 18) 11 (18) R45-53.  
Ref: 83  
Journal code: 9100935. ISSN: 0959-4965.

L9 ANSWER 17 OF 76 MEDLINE  
TI Genetic control of size in **Drosophila**.  
SO PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON. SERIES B: BIOLOGICAL SCIENCES, (2000 Jul 29) 355 (1399) 945-52. Ref: 98  
Journal code: 7503623. ISSN: 0962-8436.

L9 ANSWER 18 OF 76 MEDLINE  
TI Chromatin organization and transcriptional control of gene expression in **Drosophila**.  
SO GENE, (2000 Aug 8) 253 (2) 117-36. Ref:

- 160  
Journal code: 7706761. ISSN: 0378-1119.
- L9 ANSWER 19 OF 76 MEDLINE  
TI Distal-less function during **Drosophila** appendage and sense organ development.  
SO DEVELOPMENTAL DYNAMICS, (2000 Aug) 218 (4) 554-62. Ref: 58  
Journal code: 9201927. ISSN: 1058-8388.
- L9 ANSWER 20 OF 76 MEDLINE  
TI Genetic control of epithelial cell polarity: lessons from **Drosophila**.  
SO DEVELOPMENTAL DYNAMICS, (2000 May) 218 (1) 52-67. Ref: 125  
Journal code: 9201927. ISSN: 1058-8388.
- L9 ANSWER 21 OF 76 MEDLINE  
TI Developmental regulation of cell migration. Insight from a genetic approach in **Drosophila**.  
SO CELL BIOCHEMISTRY AND BIOPHYSICS, (1999) 31 (3) 219-29. Ref: 52  
Journal code: 9701934. ISSN: 1085-9195.
- L9 ANSWER 22 OF 76 MEDLINE  
TI **Drosophila** in cancer research. An expanding role.  
SO TRENDS IN GENETICS, (2000 Jan) 16 (1) 33-9. Ref: 78  
Journal code: 8507085. ISSN: 0168-9525.
- L9 ANSWER 23 OF 76 MEDLINE  
TI Sex-ratio meiotic drive in **Drosophila** simulans is related to equational nondisjunction of the Y chromosome.  
SO GENETICS, (2000 Jan) 154 (1) 229-36. Ref: 78  
Journal code: 0374636. ISSN: 0016-6731.
- L9 ANSWER 24 OF 76 MEDLINE  
TI Surviving **Drosophila** eye development: integrating cell death with differentiation during formation of a neural structure.  
SO BIOESSAYS, (1999 Dec) 21 (12) 991-1003. Ref: 78  
Journal code: 8510851. ISSN: 0265-9247.
- L9 ANSWER 25 OF 76 MEDLINE  
TI An emerging blueprint for apoptosis in **Drosophila**.  
SO TRENDS IN CELL BIOLOGY, (1999 Nov) 9 (11) 435-40. Ref: 69  
Journal code: 9200566. ISSN: 0962-8924.
- L9 ANSWER 26 OF 76 MEDLINE  
TI Developmental **genetics** of the **Drosophila** gut: specification of primordia, subdivision and overt-differentiation.  
SO CELLULAR AND MOLECULAR BIOLOGY, (1999 Jul) 45 (5) 661-76. Ref: 79  
Journal code: 9216789. ISSN: 0145-5680.
- L9 ANSWER 27 OF 76 MEDLINE  
TI Are **Drosophila** SR drive chromosomes always balanced?.  
SO HEREDITY, (1999 Sep) 83 ( Pt 3) 221-8. Ref: 42  
Journal code: 0373007. ISSN: 0018-067X.
- L9 ANSWER 28 OF 76 MEDLINE  
TI Chorion gene amplification in **Drosophila**: A model for metazoan origins of DNA replication and S-phase control.  
SO METHODS, (1999 Jul) 18 (3) 407-17. Ref: 78  
Journal code: 9426302. ISSN: 1046-2023.
- L9 ANSWER 29 OF 76 MEDLINE  
TI Muscle pattern diversification in **Drosophila**: the story of imaginal myogenesis.  
SO BIOESSAYS, (1999 Jun) 21 (6) 486-98. Ref: 78  
Journal code: 8510851. ISSN: 0265-9247.
- L9 ANSWER 30 OF 76 MEDLINE  
TI Molecular complexity at the synapse: new proteins and multiple isoforms detected in **Drosophila**.  
SO ROSSIISKII FIZIOLOGICHESKII ZHURNAL IMENI I. M. SECHENOVA, (1999 Jan) 85 (1) 159-66. Ref: 58  
Journal code: 9715665. ISSN: 0869-8139.
- L9 ANSWER 31 OF 76 MEDLINE  
TI **Genetics** of epithelial polarity and pattern in the **Drosophila** retina.  
SO BIOESSAYS, (1999 Apr) 21 (4) 275-85. Ref: 63  
Journal code: 8510851. ISSN: 0265-9247.
- L9 ANSWER 32 OF 76 MEDLINE  
TI FMRFamide neuropeptides and neuropeptide-associated enzymes in **Drosophila**.  
SO MICROSCOPY RESEARCH AND TECHNIQUE, (1999 Apr 15) 45 (2) 80-95. Ref: 75  
Journal code: 9203012. ISSN: 1059-910X.
- L9 ANSWER 33 OF 76 MEDLINE  
TI RNA sorting in **Drosophila** oocytes and embryos.  
SO FASEB JOURNAL, (1999 Mar) 13 (3) 421-33. Ref: 110  
Journal code: 8804484. ISSN: 0892-6638.
- L9 ANSWER 34 OF 76 MEDLINE  
TI JNK, cytoskeletal regulator and stress response kinase? A **Drosophila** perspective.  
SO BIOESSAYS, (1998 Dec) 20 (12) 1009-19. Ref: 83  
Journal code: 8510851. ISSN: 0265-9247.
- L9 ANSWER 35 OF 76 MEDLINE  
TI [Dorsal closure in **Drosophila**. A genetic model for wound healing?].  
La fermeture dorsale chez la drosophile. Un modele genetique de la cicatrisation?.  
SO COMPTES RENDUS DE L ACADEMIE DES SCIENCES. SERIE III, SCIENCES DE LA VIE, (1999 Jan) 322 (1) 5-13. Ref: 69  
Journal code: 8503078. ISSN: 0764-4469.
- L9 ANSWER 36 OF 76 MEDLINE  
TI Posterior gut development in **Drosophila**: a model system for identifying genes controlling epithelial morphogenesis.  
SO CELL RESEARCH, (1998 Dec) 8 (4) 273-84. Ref: 29  
Journal code: 9425763. ISSN: 1001-0602.

- L9 ANSWER 37 OF 76 MEDLINE  
 TI Positioning and differentiation of veins in the **Drosophila** wing.  
 SO INTERNATIONAL JOURNAL OF DEVELOPMENTAL BIOLOGY, (1998) 42 (3 Spec No) 335-43. Ref: 61  
 Journal code: 8917470. ISSN: 0214-6282.
- L9 ANSWER 38 OF 76 MEDLINE  
 TI Creating mosaics in **Drosophila**.  
 SO INTERNATIONAL JOURNAL OF DEVELOPMENTAL BIOLOGY, (1998) 42 (3 Spec No) 243-7. Ref: 20  
 Journal code: 8917470. ISSN: 0214-6282.
- L9 ANSWER 39 OF 76 MEDLINE  
 TI Dual functions of the heartless fibroblast growth factor receptor in development of the **Drosophila** embryonic mesoderm.  
 SO DEVELOPMENTAL GENETICS, (1998) 22 (3) 212-29.  
 Journal code: 7909963. ISSN: 0192-253X.
- L9 ANSWER 40 OF 76 MEDLINE  
 TI Ectopic gene expression in **Drosophila** using GAL4 system.  
 SO METHODS, (1998 Apr) 14 (4) 367-79. Ref: 47  
 Journal code: 9426302. ISSN: 1046-2023.
- L9 ANSWER 41 OF 76 MEDLINE  
 TI **Drosophila** myogenesis and insights into the role of nautilus.  
 SO CURRENT TOPICS IN DEVELOPMENTAL BIOLOGY, (1998) 38 35-80. Ref: 296  
 Journal code: 0163114. ISSN: 0070-2153.
- L9 ANSWER 42 OF 76 MEDLINE  
 TI Pairing sites and the role of chromosome pairing in meiosis and spermatogenesis in male **Drosophila**.  
 SO CURRENT TOPICS IN DEVELOPMENTAL BIOLOGY, (1998) 37 77-115. Ref: 93  
 Journal code: 0163114. ISSN: 0070-2153.
- L9 ANSWER 43 OF 76 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI Developmental roles of heparan sulfate proteoglycans: A comparative review in **Drosophila**, mouse and human.  
 SO International Journal of Developmental Biology, (May, 2002) Vol. 46, No. 3, pp. 267-278. print.  
 ISSN: 0214-6282.
- L9 ANSWER 44 OF 76 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI The behavior of **Drosophila** larvae: Their ethology, development, genetics and evolution.  
 Original Title: La conducta de larvas de **Drosophila** (Diptera; Drosophilidae): Su etologia, desarrollo, genetica y evolucion..  
 SO Revista Chilena de Historia Natural, (Marzo, 2001) Vol. 74, No. 1, pp. 55-64. print.  
 ISSN: 0716-078X.
- L9 ANSWER 45 OF 76 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI Steroid regulation of programmed cell death during **Drosophila** development.
- SO Cell Death and Differentiation, (November, 2000) Vol. 7, No. 11, pp. 1057-1062. print.  
 ISSN: 1350-9047.
- L9 ANSWER 46 OF 76 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI Signal transduction pathway for anterior-posterior development in **Drosophila**.  
 SO Journal of Biomedical Science, (Sept. Oct., 1999) Vol. 6, No. 5, pp. 314-319.  
 ISSN: 1021-7770.
- L9 ANSWER 47 OF 76 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI Dosage compensation in **Drosophila**: A pragmatic sequel of hierarchies of segmentation, neurogenesis and sex determination.  
 SO Proceedings of the Indian National Science Academy Part B Biological Sciences, (April, 1998) Vol. 64, No. 2, pp. 101-124.  
 ISSN: 0073-6600.
- L9 ANSWER 48 OF 76 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI DEVELOPMENTAL GENETICS OF DROSOPHILA.  
 SO ROMAN, HERSCHEL L. (ED.). ANNUAL REVIEW OF GENETICS, VOL. 10. 465P. ILLUS. ANNUAL REVIEWS, INC.: PALO ALTO, CALIF., USA. 1976 (RECD 1977), 209-252.  
 ISBN: 0-8243-1210-4.
- L9 ANSWER 49 OF 76 CAPLUS COPYRIGHT 2002 ACS  
 TI Another arrow in the **Drosophila** quiver  
 SO Proceedings of the National Academy of Sciences of the United States of America (2002), 99(15), 9607-9608  
 CODEN: PNASA6; ISSN: 0027-8424
- L9 ANSWER 50 OF 76 CAPLUS COPYRIGHT 2002 ACS  
 TI Genetic analysis of gliogenesis in **Drosophila**  
 SO Glial Cell Development, 2nd Edition (2001), 245-262. Editor(s): Jessen, Kristjan R.; Richardson, William David.  
 Publisher: Oxford University Press, Oxford, UK.  
 CODEN: 69CVJH; ISBN: 0-19-852478-1
- L9 ANSWER 51 OF 76 CAPLUS COPYRIGHT 2002 ACS  
 TI **Drosophila**: the star of genetics flies forever  
 SO Saibo Kogaku (2002), 21(1), 63-68  
 CODEN: SAKOEO; ISSN: 0287-3796
- L9 ANSWER 52 OF 76 CAPLUS COPYRIGHT 2002 ACS  
 TI Genetic models meet trophic mechanisms: EGF family members are gliatrophins in **Drosophila**  
 SO Neuron (2002), 33(5), 673-675  
 CODEN: NERNET; ISSN: 0896-6273
- L9 ANSWER 53 OF 76 CAPLUS COPYRIGHT 2002 ACS  
 TI Ovarian differentiation and human embryo quality. 1. Molecular and morphogenetic homologies between oocytes and embryos in **Drosophila**, *C. elegans*, *Xenopus* and mammals  
 SO Reproductive BioMedicine Online [online computer file] (2001), 3(2), 138-160

CODEN: RBOEA6; ISSN: 1472-6491  
URL:  
<http://www.rbmonline.com/4DCGI/Article/Detail?38%091%09=%20156%09>

L9 ANSWER 54 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI What can we teach **Drosophila**? What can they teach us?

SO Trends in Genetics (2001), 17(12), 719-726  
CODEN: TRGEE2; ISSN: 0168-9525

L9 ANSWER 55 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI **Genetics** of **Drosophila** sexual behavior  
SO Kodo no Bunshi Seibutsugaku (2000), 41-54.  
Editor(s): Yamamoto, Daisuke.  
Publisher: Springer-Verlag Tokyo, Tokyo, Japan.  
CODEN: 69BSFX

L9 ANSWER 56 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Heparan sulfate proteoglycans: **Drosophila genetics** and biochemistry provide a new insight into the regulation of their functions  
SO Seikagaku (2001), 73(6), 449-457  
CODEN: SEIKAQ; ISSN: 0037-1017

L9 ANSWER 57 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI The **genetics** of aging in **Drosophila**  
SO Handbook of the Biology of Aging (5th Edition) (2001), 353-368.  
Editor(s): Masoro, Edward J.; Austad, Steven N. Publisher: Academic Press, San Diego, Calif.  
CODEN: 69BKSM

L9 ANSWER 58 OF 76 CAPLUS COPYRIGHT 2002 ACS  
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SO Current Opinion in Genetics & Development (2001), 11(3), 274-278  
CODEN: COGDET; ISSN: 0959-437X

L9 ANSWER 59 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Deer mice: "the **Drosophila** of North American mammalogy"  
SO Genesis (New York, NY, United States) (2001), 29(3), 105-109  
CODEN: GNESEF; ISSN: 1526-954X

L9 ANSWER 60 OF 76 CAPLUS COPYRIGHT 2002 ACS  
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SO Chemical Senses (2001), 26(2), 201-206  
CODEN: CHSED8; ISSN: 0379-864X

L9 ANSWER 61 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Genetic control of meiosis in **Drosophila**  
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CODEN: RJGEEQ; ISSN: 1022-7954

L9 ANSWER 62 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Analysis of sphingolipid biosynthetic pathway by **Drosophila genetics**  
SO Seikagaku (2000), 72(9), 1172-1175  
CODEN: SEIKAQ; ISSN: 0037-1017

L9 ANSWER 63 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Transposable elements and genome evolution: The case of **Drosophila simulans**

SO Genetica (The Hague) (2000), Volume Date 1999, 107(1-3), 113-120  
CODEN: GENE3; ISSN: 0016-6707

L9 ANSWER 64 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI The Midline Glia of **Drosophila**: a molecular genetic model for the developmental functions of Glia  
SO Progress in Neurobiology (Oxford) (2000), 62(5), 475-508  
CODEN: PGNBA5; ISSN: 0301-0082

L9 ANSWER 65 OF 76 CAPLUS COPYRIGHT 2002 ACS  
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SO Kidney International (2000), 57(3), 766-771  
CODEN: KDYIA5; ISSN: 0085-2538

L9 ANSWER 66 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Vertebrate eye development as modeled in **Drosophila**  
SO Human Molecular Genetics (2000), 9(6), 917-925  
CODEN: HMGEE5; ISSN: 0964-6906

L9 ANSWER 67 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI **Drosophila** larval neuromuscular junction: Molecular components and mechanisms underlying synaptic plasticity  
SO Microscopy Research and Technique (2000), 49(1), 14-25  
CODEN: MRTEEO; ISSN: 1059-910X

L9 ANSWER 68 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Modeling human neurodegenerative diseases in **Drosophila**: on a wing and a prayer  
SO Trends in Genetics (2000), 16(4), 161-167  
CODEN: TRGEE2; ISSN: 0168-9525

L9 ANSWER 69 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Molecular rhythms that regulate rhythm genes in **Drosophila**  
SO Current Science (1999), 77(9), 1165-1169  
CODEN: CUSCAM; ISSN: 0011-3891

L9 ANSWER 70 OF 76 CAPLUS COPYRIGHT 2002 ACS  
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SO Advances in Developmental Biochemistry (1999), 5, 1-47  
CODEN: ADEBEG; ISSN: 1064-2722

L9 ANSWER 71 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Reproductive isolation in **Drosophila**: how close are we to untangling the **genetics** of speciation?  
SO Current Opinion in Genetics & Development (1998), 8(6), 709-714  
CODEN: COGDET; ISSN: 0959-437X

L9 ANSWER 72 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI **Genetics** of biological rhythms in **Drosophila**  
SO Advances in Genetics (1998), 38, 135-184  
CODEN: ADGEAV; ISSN: 0065-2660

L9 ANSWER 73 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Molecular components of a model circadian clock: lessons from **Drosophila**  
SO Handbook of Behavioral State Control (1999), 61-74. Editor(s): Lydic,

Ralph; Baghdoyan, Helen A. Publisher: CRC,  
Boca Raton, Fla.  
CODEN: 67BIAI

L9 ANSWER 74 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI The **genetics** of embryonic brain development  
in

**Drosophila**

SO Molecular and Cellular Neuroscience (1998),  
12(4/5), 194-205  
CODEN: MOCNED; ISSN: 1044-7431

L9 ANSWER 75 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI The molecular **genetics** of **Drosophila** clocks  
SO Symposium of the Society for General  
Microbiology (1998), 56th(Microbial  
Responses to Light and Time), 295-311  
CODEN: SSGMAI; ISSN: 0081-1394

L9 ANSWER 76 OF 76 CAPLUS COPYRIGHT 2002 ACS  
TI Beyond the nucleosome: epigenetic aspects  
of position-effect variegation  
in **Drosophila**  
SO Cell (Cambridge, Massachusetts) (1998),  
93(3), 321-324  
CODEN: CELLB5; ISSN: 0092-8674

=> d ibib ab 68,58,54,48,40,22

L9 ANSWER 68 OF 76 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2000:220935 CAPLUS  
DOCUMENT NUMBER: 133:3027  
TITLE: Modeling human  
neurodegenerative diseases in

**Drosophila**: on a wing

and a prayer

AUTHOR(S): Fortini, M. E.; Bonini,  
N. M.

CORPORATE SOURCE: Department of Genetics,  
University of Pennsylvania  
School of Medicine,

Philadelphia, PA, USA

SOURCE: Trends in Genetics

(2000), 16(4), 161-167

CODEN: TRGEE2; ISSN:

0168-9525

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A **review** with 54 refs. The ability of

**Drosophila**

**genetics** to reveal new insights into human  
neurodegenerative

disease is highlighted not only by mutants  
in flies that show neuronal

cell loss, but also by targeted expression  
of human disease genes in the

fly. Moreover, study of **Drosophila**

homologs of various human

disease genes provides new insight into

fundamental aspects of protein

function. These recent findings confirm

the remarkable homol. of gene

function in flies when compared with

humans. With the advent of complete

genomic sequencing on the horizon,

**Drosophila** will continue to

be an outstanding model system in which to

unravel the complexities,

causes and treatments for human neural  
degeneration.

REFERENCE COUNT: 54 THERE ARE 54

CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL

CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 58 OF 76 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2001:418093 CAPLUS  
DOCUMENT NUMBER: 135:135375  
TITLE: Of flies and men -  
studying human disease in

**Drosophila**

AUTHOR(S): Bernards, Andre;

Hariharan, Iswar K.

CORPORATE SOURCE: Massachusetts General  
Hospital Cancer Center,

Charlestown, MA, 02129,

USA

SOURCE: Current Opinion in

Genetics & Development (2001),

11(3), 274-278

CODEN: COGDET; ISSN:

0959-437X

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

AB A **review** with 49 refs. During the past  
year, the

**Drosophila** genome was sequenced. More than  
60% of genes

implicated in human disease have **Drosophila**  
orthologues.

Developments in RNA-mediated interference  
and homologous recombination

have made "reverse **genetics**" feasible in

**Drosophila**.

Conventional **Drosophila genetics** is being  
used

increasingly to place human disease genes  
of unknown function in the

context of functional pathways.

REFERENCE COUNT: 49 THERE ARE 49

CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL

CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 54 OF 76 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2001:856573 CAPLUS  
DOCUMENT NUMBER: 136:335614  
TITLE: What can we teach

**Drosophila**? What can they

teach us?

AUTHOR(S): Waddell, Scott; Quinn,  
William G.

CORPORATE SOURCE: Dept of Neurobiology,  
University of Massachusetts

Medical School,

Worcester, MA, 01655, USA

SOURCE: Trends in Genetics

(2001), 17(12), 719-726

CODEN: TRGEE2; ISSN:

0168-9525

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

AB A **review**. A no. of single gene mutations  
dramatically reduce

the ability of fruit flies to learn or to

remember. Cloning of the

affected genes implicated the adenylyl

cyclase second-messenger system as

key in learning and memory. The expression

patterns of these genes, in

combination with other data, indicates that

brain structures called

mushroom bodies are crucial for olfactory

learning. However, the mushroom

bodies are not dedicated solely to

olfactory processing; they also mediate

higher cognitive functions in the fly, such as visual context generalization. Mol. genetic manipulations, coupled with behavioral studies of the fly, will identify rudimentary neural circuits that underly multisensory learning and perhaps also the circuits that mediate more-complex brain functions, such as attention. Mol. genetic dissection in the fruit fly is uncovering the neural circuitry and biochem. processes that underly multisensory learning and memory.

REFERENCE COUNT: 81 THERE ARE 81  
CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL  
CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 48 OF 76 BIOSIS COPYRIGHT 2002  
BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 1977:67858 BIOSIS  
DOCUMENT NUMBER: BR13:67858  
TITLE: DEVELOPMENTAL GENETICS OF  
**DROSOPHILA**.  
AUTHOR(S): GEHRING W J  
SOURCE: ROMAN, HERSCHEL L. (ED.).  
ANNUAL REVIEW OF GENETICS, VOL.  
10. 465P. ILLUS. ANNUAL  
REVIEWS, INC.: PALO ALTO, CALIF.,  
USA, 1976 (RECD 1977), 209-  
252.  
ISBN: 0-8243-1210-4.  
FILE SEGMENT: BR; OLD  
LANGUAGE: Unavailable

L9 ANSWER 40 OF 76 MEDLINE  
ACCESSION NUMBER: 1998271435 MEDLINE  
DOCUMENT NUMBER: 98271435 PubMed ID:  
9608508  
TITLE: Ectopic gene expression in  
**Drosophila** using GAL4  
system.  
AUTHOR: Phelps C B; Brand A H  
CORPORATE SOURCE: Wellcome/CRC Institute,  
Cambridge University, United  
Kingdom.  
SOURCE: METHODS, (1998 Apr) 14 (4)  
367-79. Ref: 47  
Journal code: 9426302. ISSN:  
1046-2023.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL  
ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199808  
ENTRY DATE: Entered STN: 19980903  
Last Updated on STN:  
20000303

Entered Medline: 19980825  
AB Expressing a gene in cells in which it is not normally active is a powerful way of determining its function. The GAL4 system allows the selective expression of any cloned gene in a wide variety of cell- and tissue-specific patterns in **Drosophila**. A promoter (or enhancer) directs expression of the yeast transcriptional activator GAL4 in a particular pattern, and GAL4 in turn directs transcription of the

GAL4-responsive (UAS) target gene in an identical pattern. The system's key feature is that the GAL4 gene and UAS-target gene are initially separated into two distinct transgenic lines. In the GAL4 line, the activator protein is present, but has no target gene to activate. In the UAS-target gene line, the target gene is silent because the activator is absent. It is only when the GAL4 line is crossed to the UAS-target gene line that the target gene is turned on in the progeny. In this article we describe, in detail, how to generate and characterize GAL4 lines and how to prepare UAS-target gene lines. Vector maps are provided for pGatB, P[GawB], and pP[UAST]. In addition, we consider the range of UAS-reporters currently available and review several new modifications of the GAL4 system.

L9 ANSWER 22 OF 76 MEDLINE  
ACCESSION NUMBER: 2000113602 MEDLINE  
DOCUMENT NUMBER: 20113602 PubMed ID:  
10637629  
TITLE: **Drosophila** in cancer  
research. An expanding role.  
AUTHOR: Potter C J; Turenchalk G S;  
Xu T  
CORPORATE SOURCE: Howard Hughes Medical  
Institute, Department of Genetics,  
Yale University School of  
Medicine, Boyer Center for  
Molecular Medicine,  
NewHaven, CT 06536-0812, .  
USA.christopher.potter@yale.edu  
CONTRACT NUMBER: R01CA69408 (NCI)  
SOURCE: TRENDS IN GENETICS, (2000  
Jan) 16 (1) 33-9. Ref: 78  
Journal code: 8507085. ISSN:  
0168-9525.  
PUB. COUNTRY: ENGLAND: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL  
ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200002  
ENTRY DATE: Entered STN: 20000309  
Last Updated on STN:  
20000309

Entered Medline: 20000218  
AB In recent years, **Drosophila** researchers have developed powerful genetic techniques that allow for the rapid identification and characterization of genes involved in tumor formation and development. The high level of gene and pathway conservation, the similarity of cellular processes and the emerging evidence of functional conservation of tumor suppressors between **Drosophila** and mammals, argue that studies of tumorigenesis in flies can directly contribute to the understanding of human cancer. In this review, we explore the historical and current roles of **Drosophila** in cancer research, as well as

speculate on the future of **Drosophila** as a  
model to investigate  
cancer-related processes that are currently  
not well understood.

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(FILE 'HOME' ENTERED AT 11:42:09 ON 13 SEP  
2002)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT  
11:42:27 ON 13 SEP 2002

L1	136709 S DROSOPHILA
L2	68303 S L1 NOT MELANOGASTER
L3	2121416 S GENETICS
L4	28264 S L2 AND L3
L5	725 S L4 AND REVIEW
L6	340 S L5 NOT PY<1998
L7	279 DUP REM L6 (61 DUPLICATES REMOVED)
L8	84916 S DROSOPHILA/TI
L9	76 S L7 AND L8

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ENTRY	SESSION
CA SUBSCRIBER PRICE	
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ON 13 SEP 2002